G. A. BREYMANN

TRATTATO GENERALE
DI
COSTRUZIONI CIVILI
CON CENNI SPECIALI
INTORNO ALLE
COSTRUZIONI GRANDIOSE

VOL. II.
COSTRUZIONI IN LEGNO

DI

OTTO WARTH

tradotta sulla sesta originale

Dall'Ing. OLIVIERO NEGRI

CON NOTE

DELL'ING. CAV. GIULIO STABILINI

Prof. nella R. Scuola d'applic. per gli Ingegneri in Bologna

QUARTA EDIZIONE ITALIANA

CON APPENDICI D'AGGIORNAMENTO DEGLI INGEGNERI

CASTIGLIA ENRICO
del Politecnico di Palermo

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CASA EDITRICE
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1927

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TRATTATO GENERALE

DI

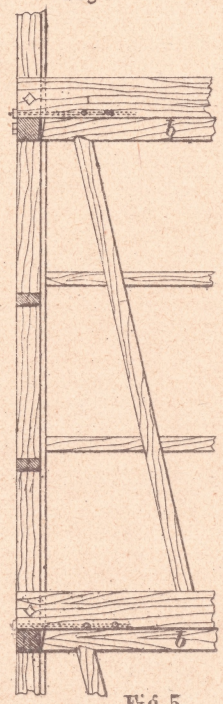
COSTRUZIONI CIVILI

CON CENNI SPECIALI

INTORNO ALLE

COSTRUZIONI GRANDIOSE

Fig. 3.



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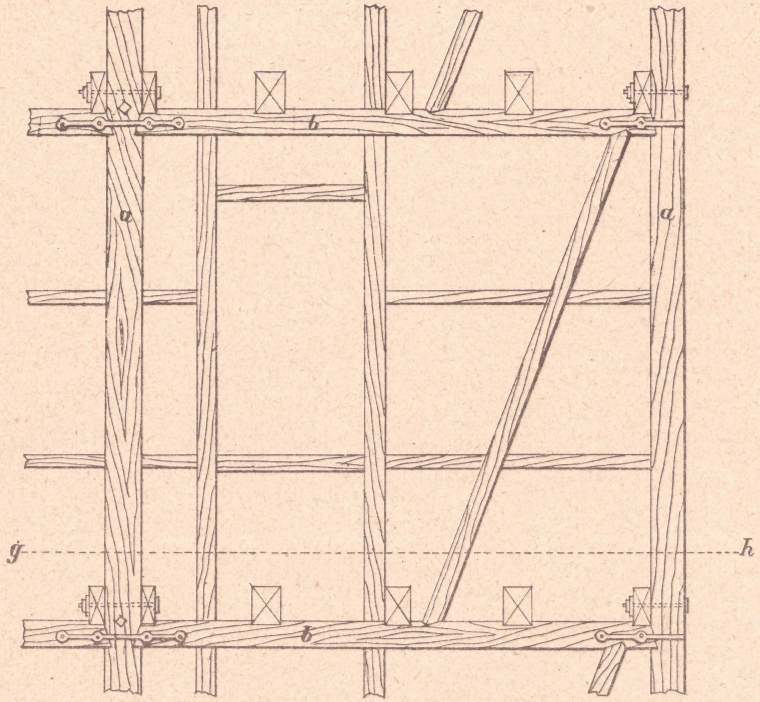

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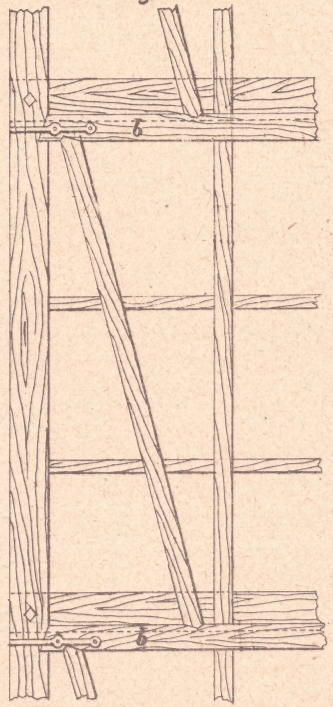

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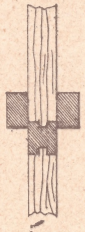

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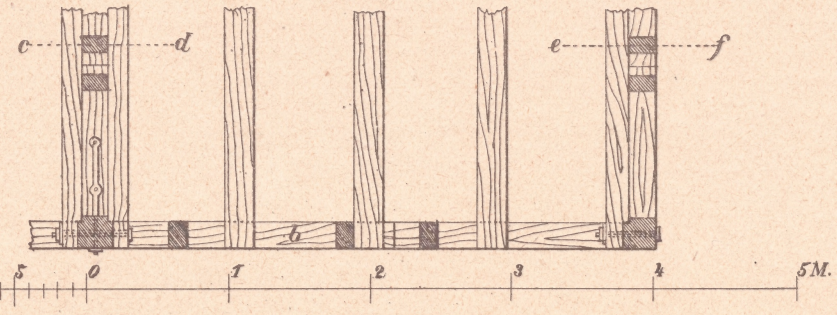

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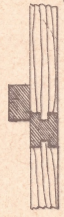

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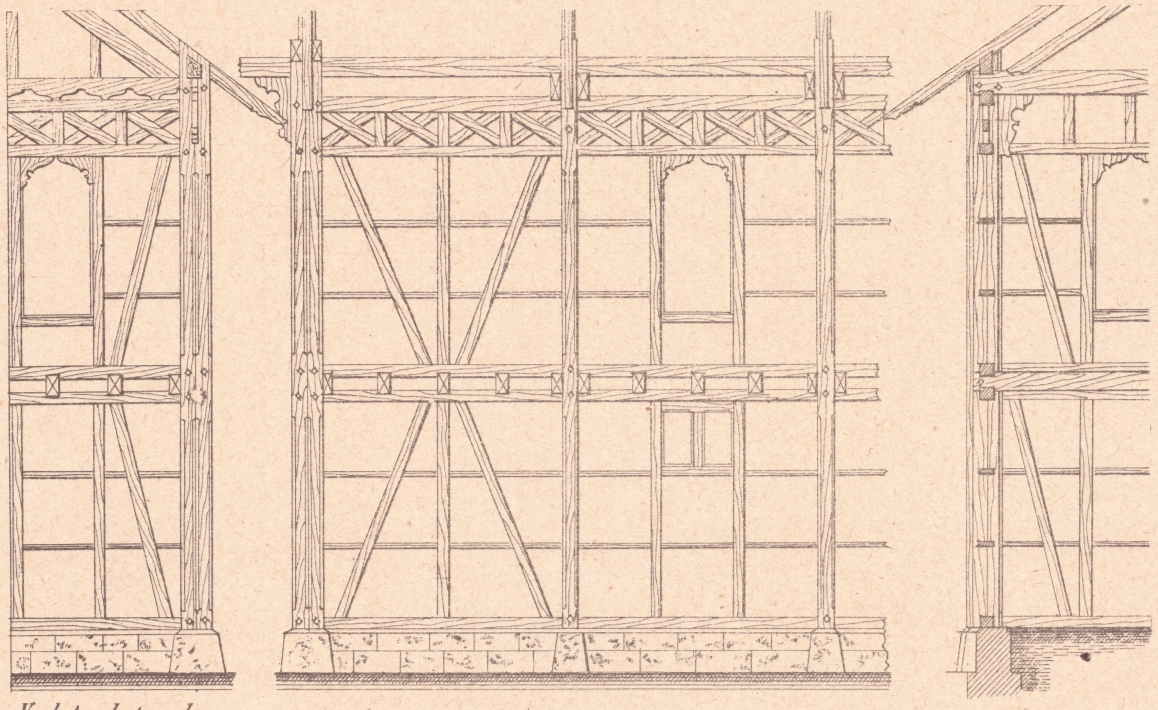

Veduta laterale

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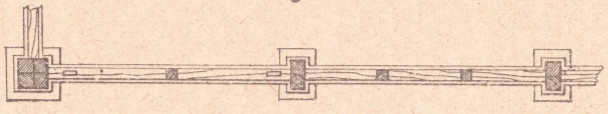

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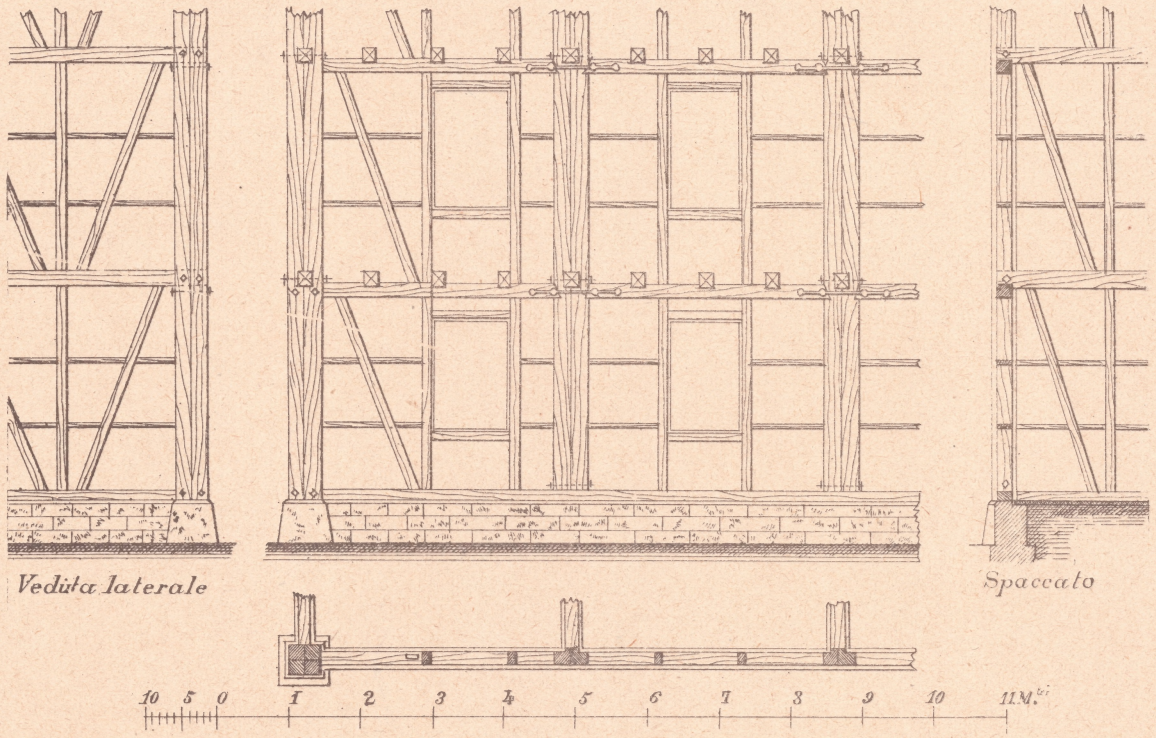


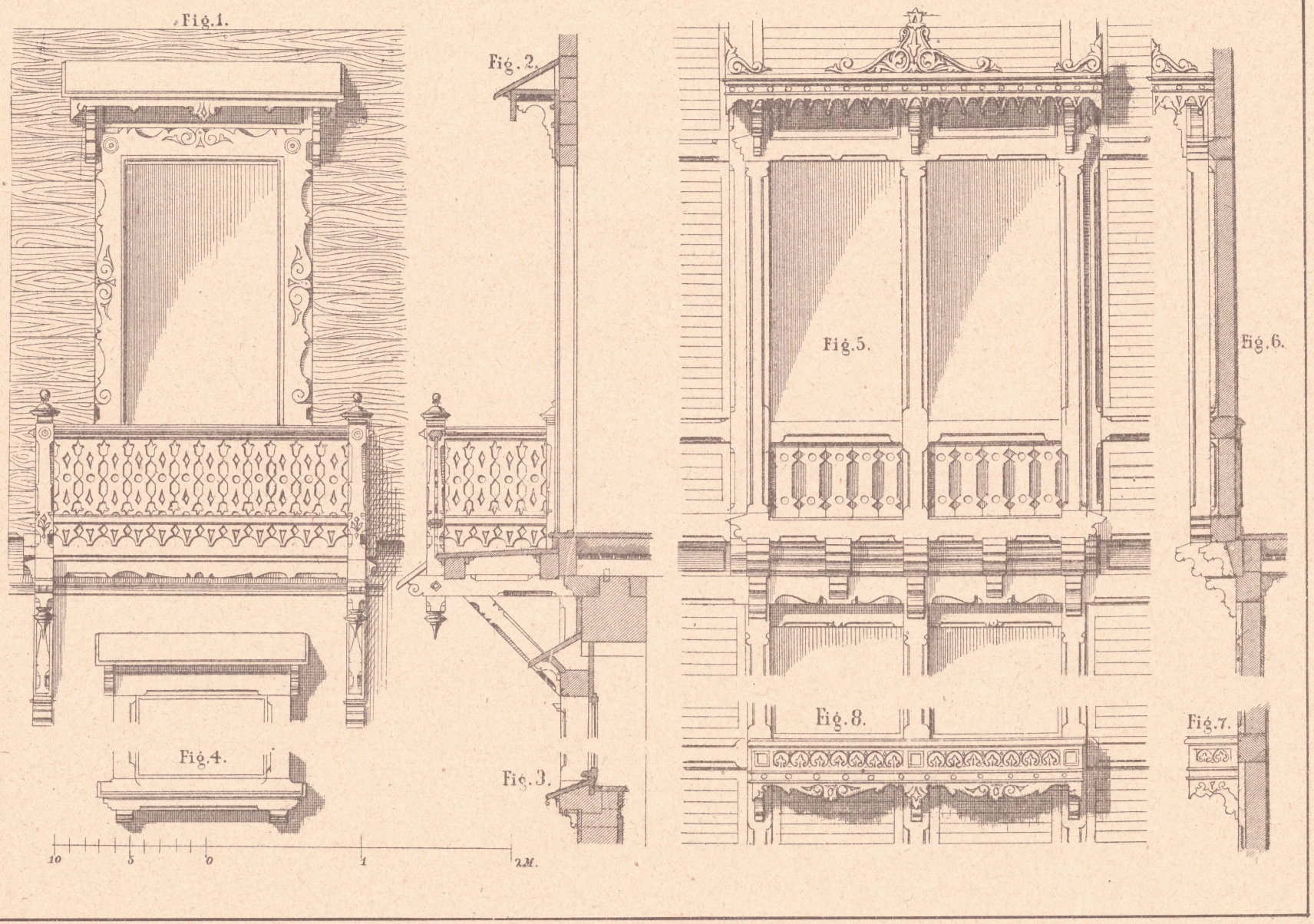
Veduta laterale

Spaccato

Dall' Architettura del Legno nel Medio Evo di Böttticher

Bregmann II

Tav. 4.



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Tav. 5.

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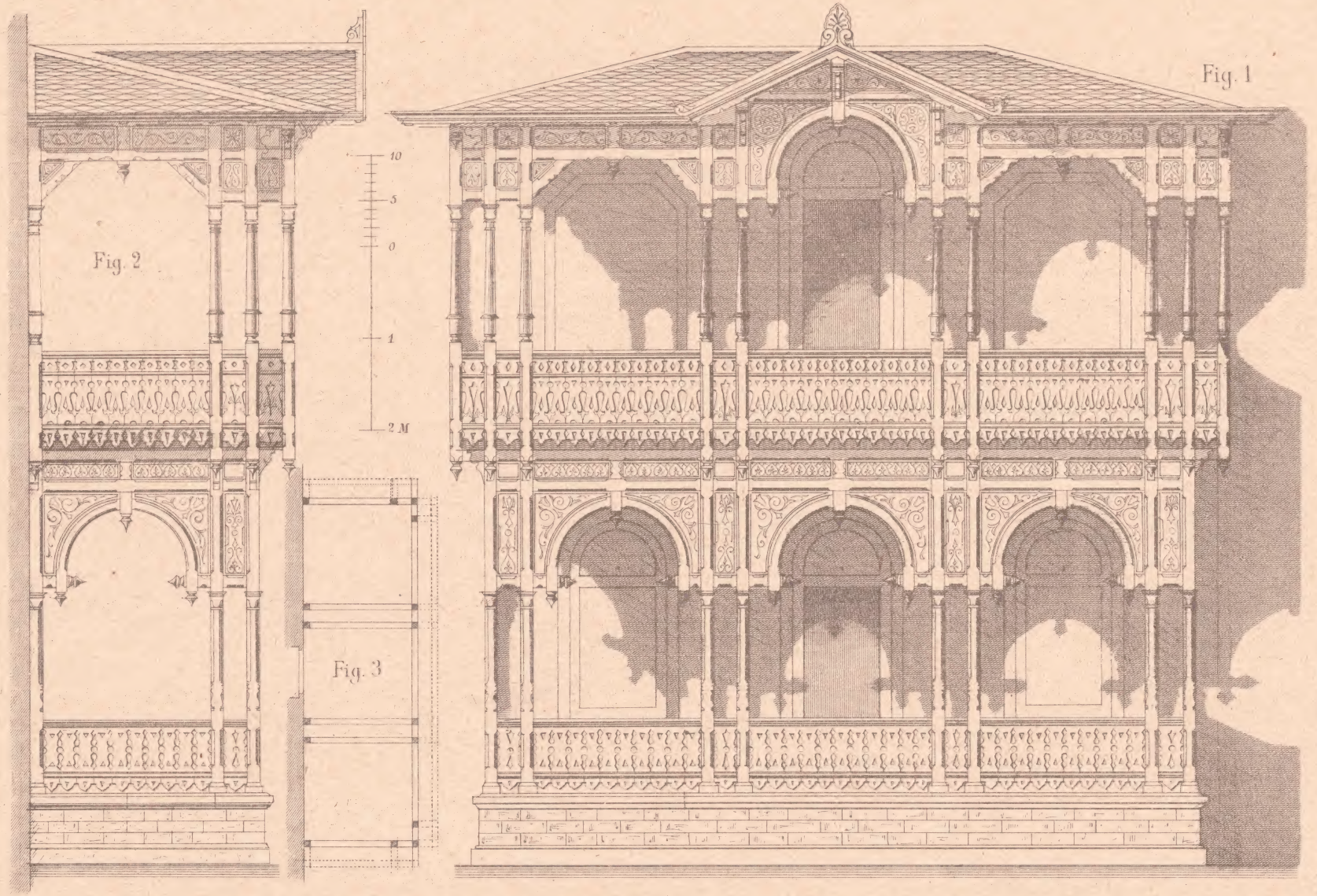

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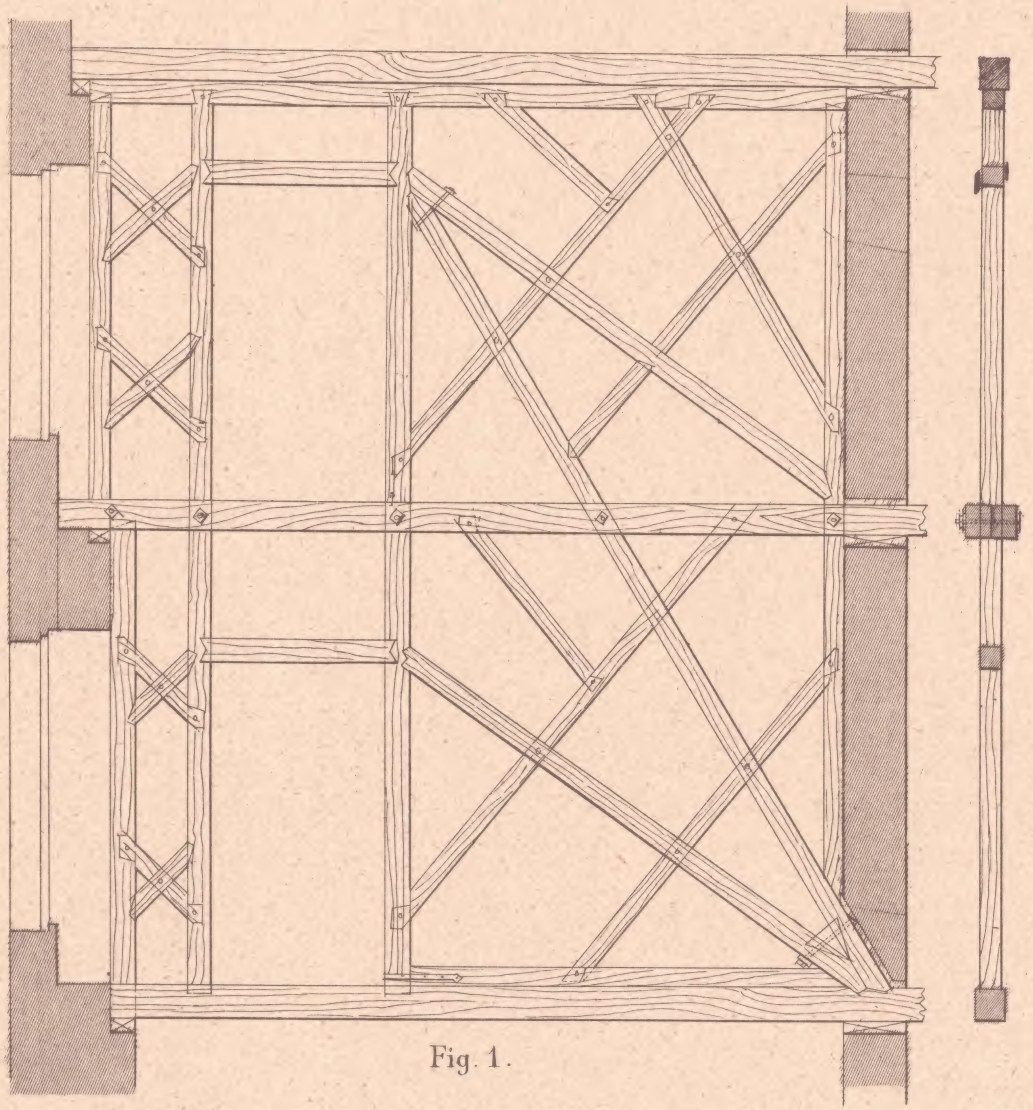

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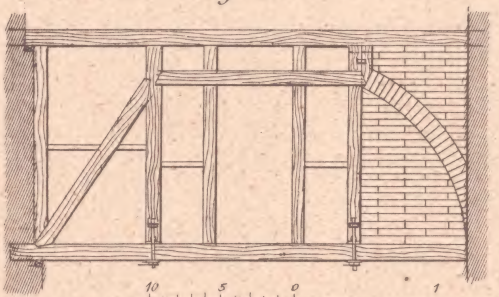

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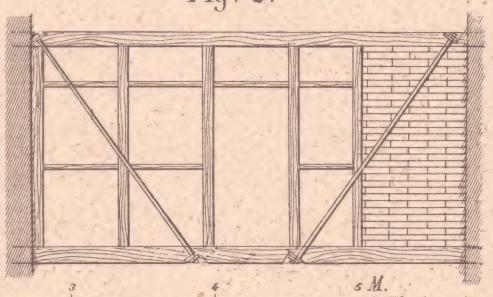

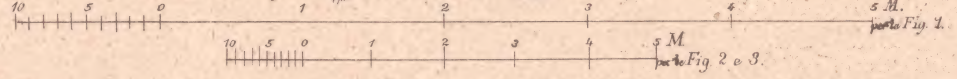

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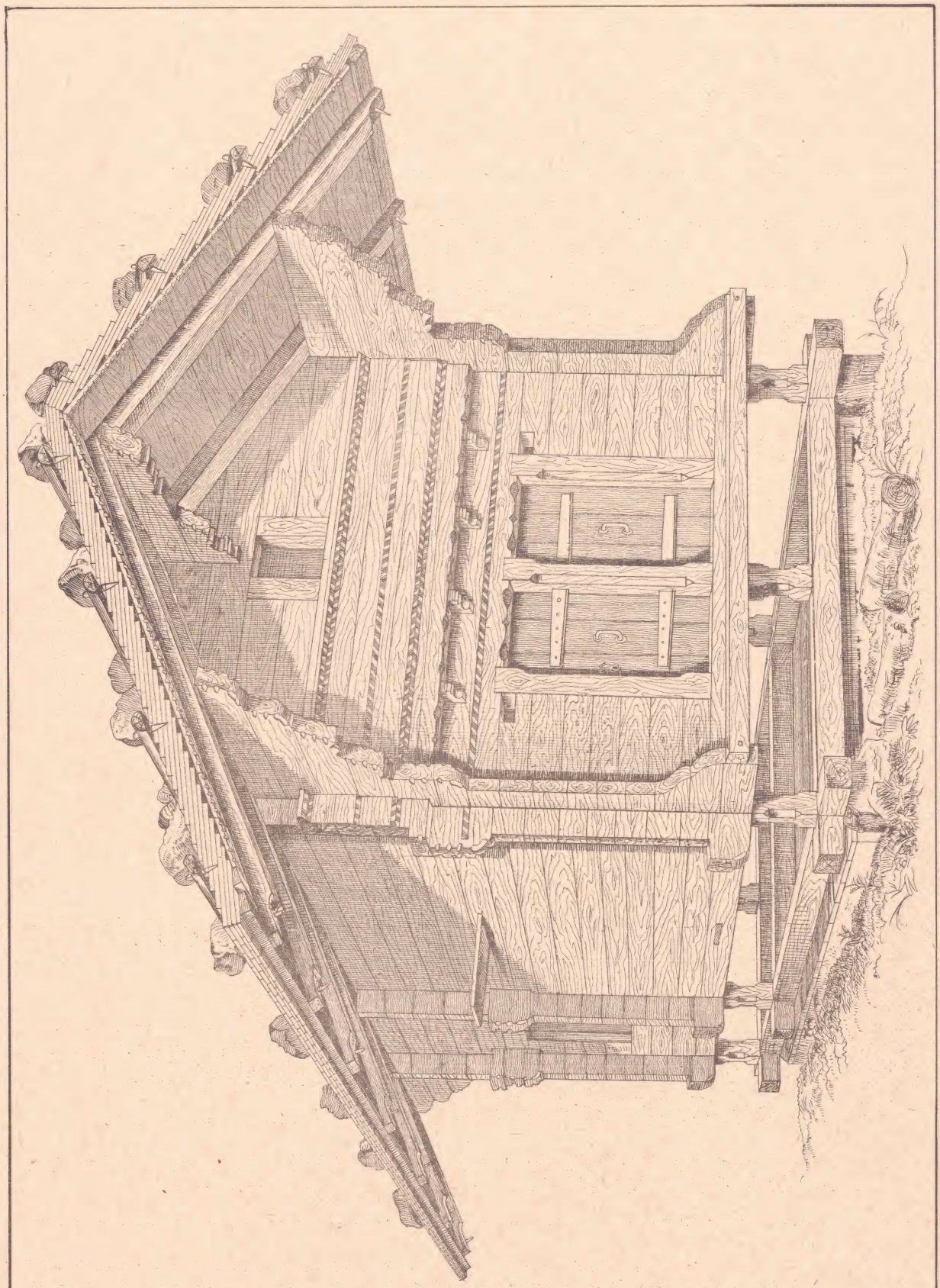

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Tav. 10.

Fig. 1.

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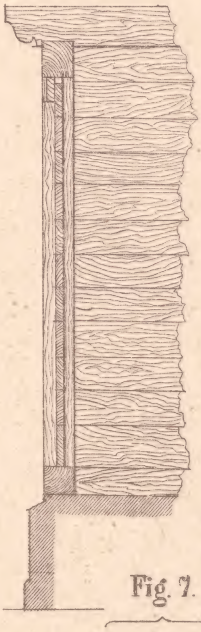

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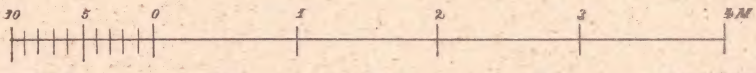

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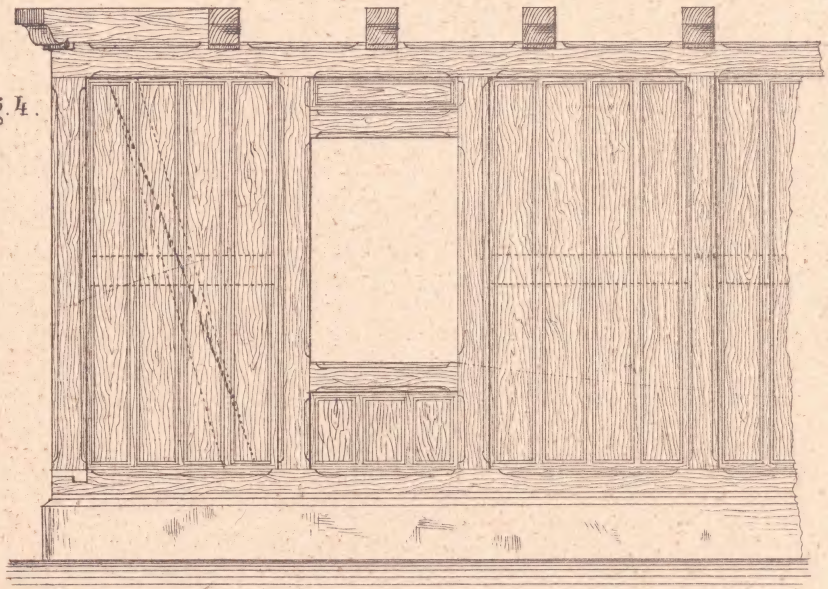

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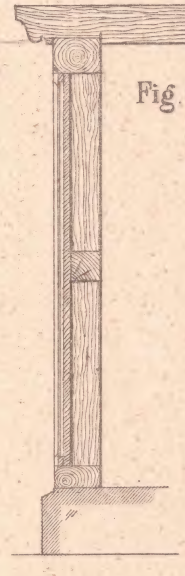

Fig. 6.

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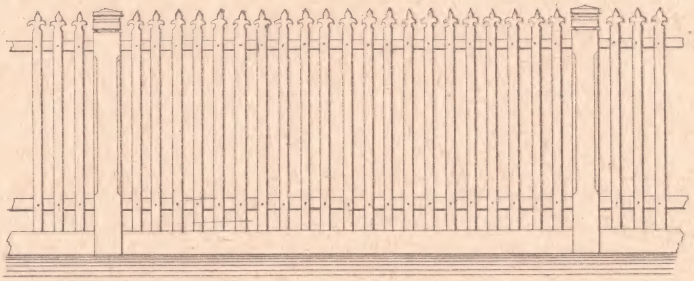

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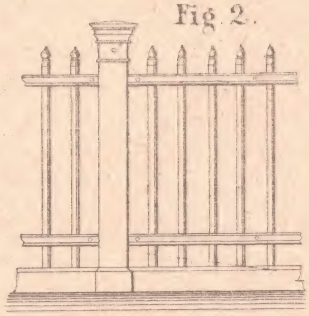

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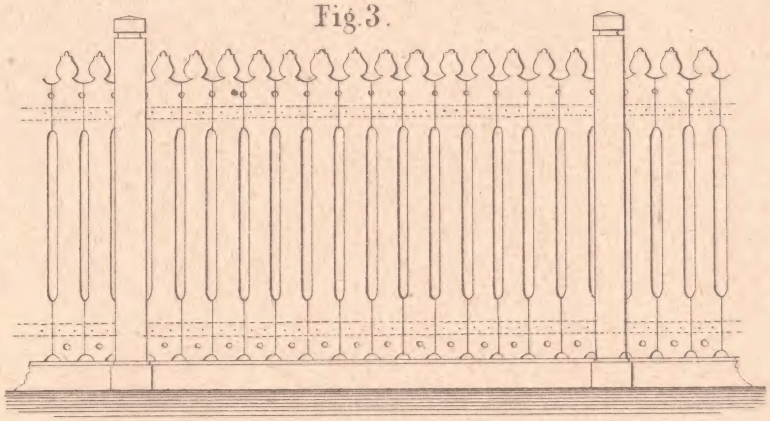

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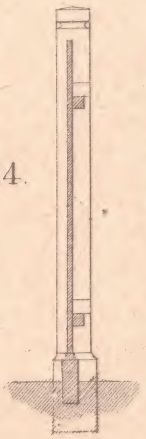

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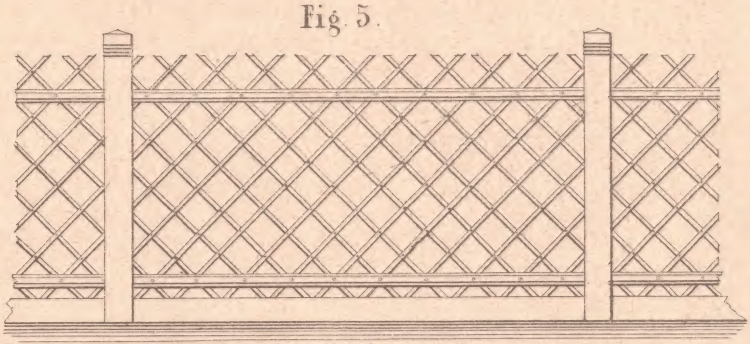

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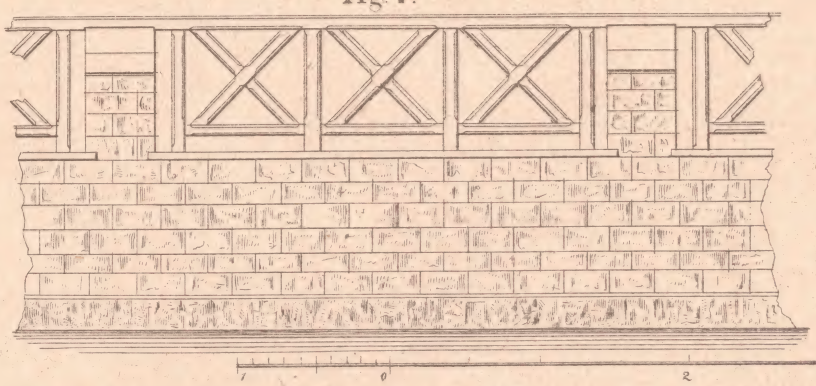

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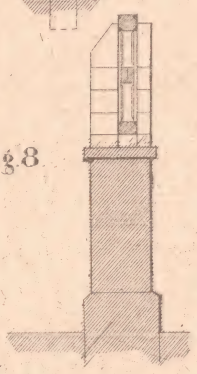

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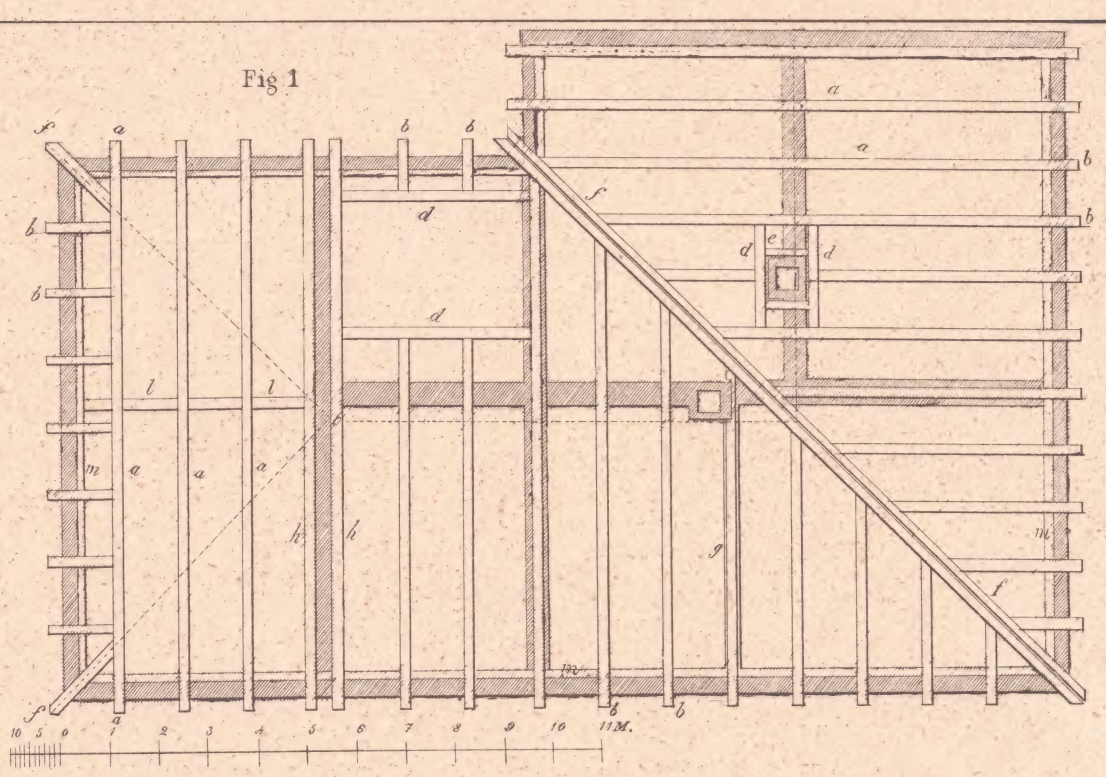
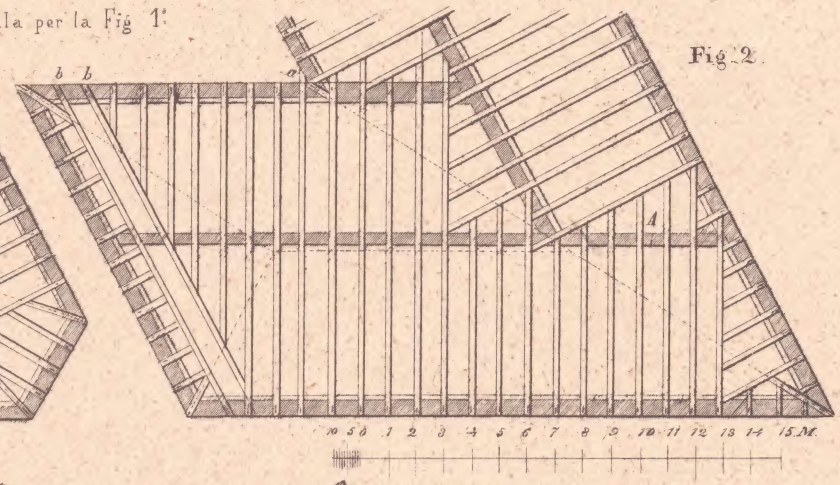


Scala per la Fig 1ª

Fig 2



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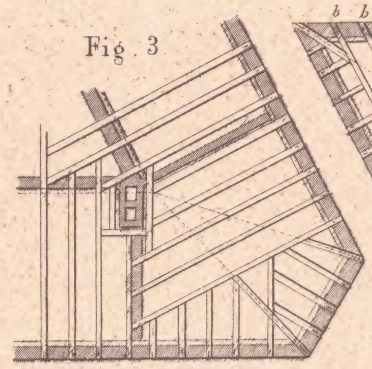
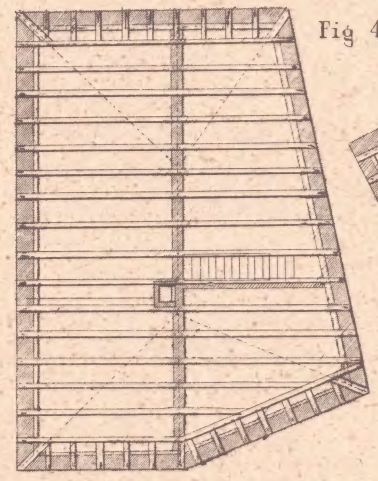


Scala per le Figᵉ 2–5

Fig 4



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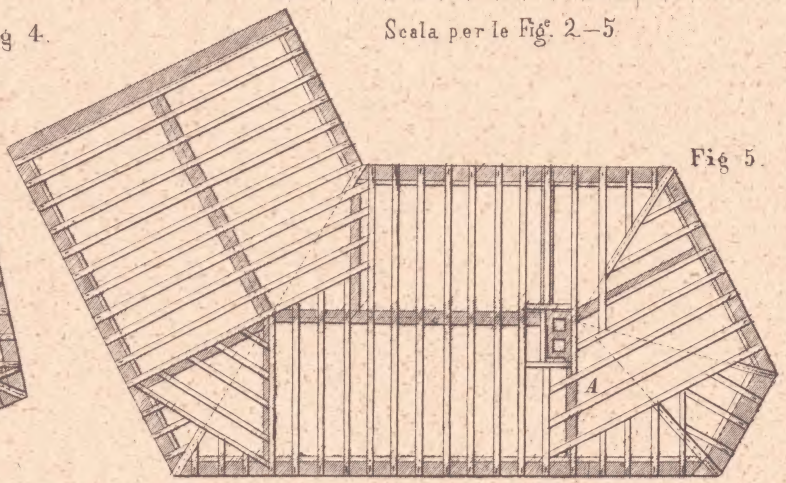

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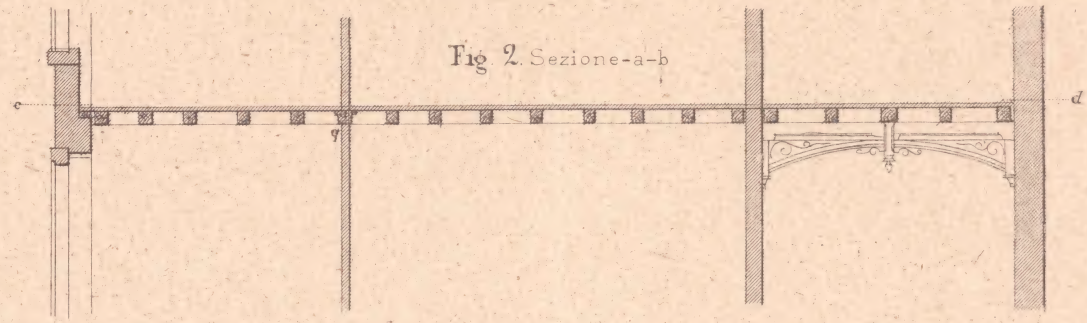

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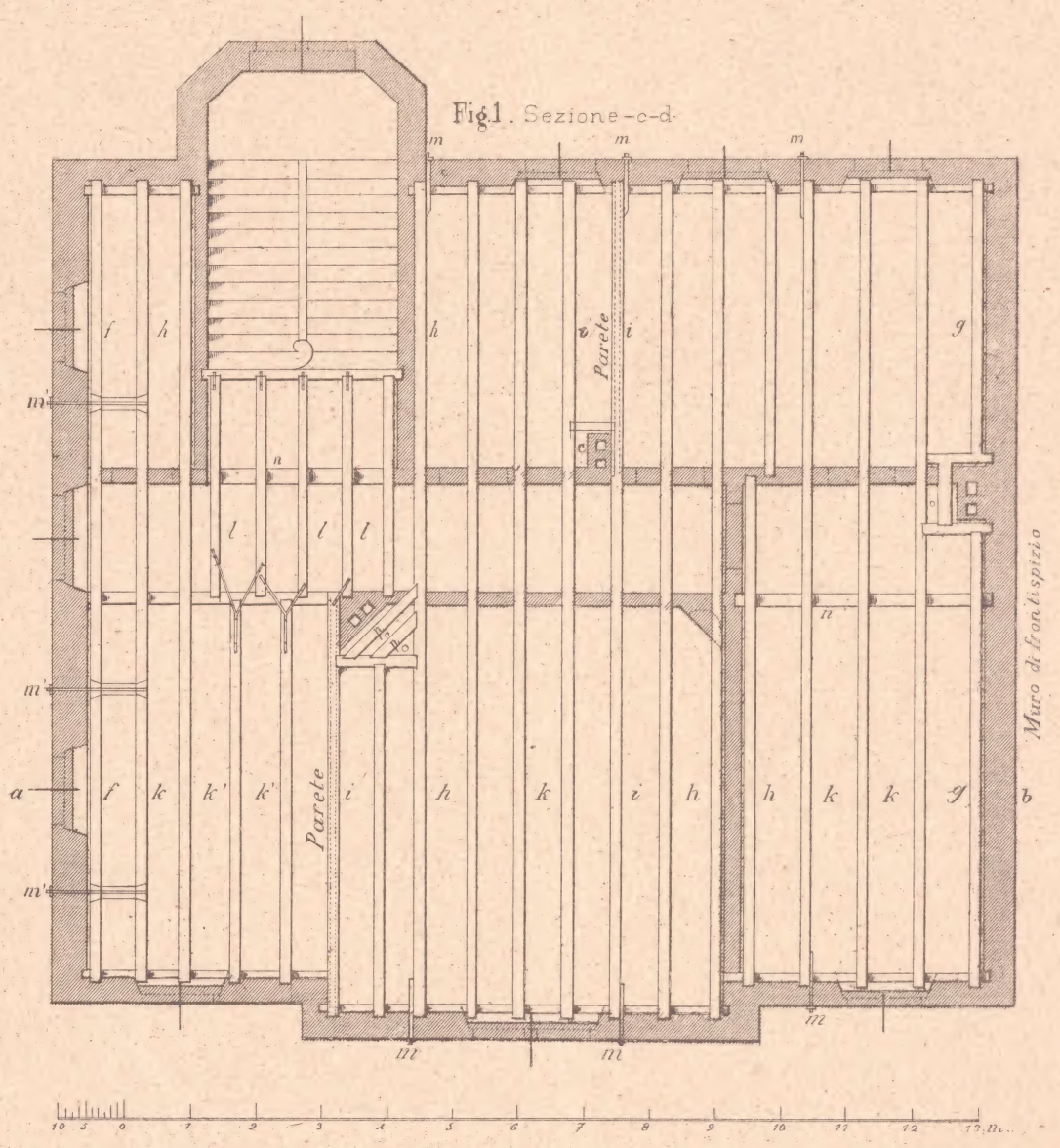

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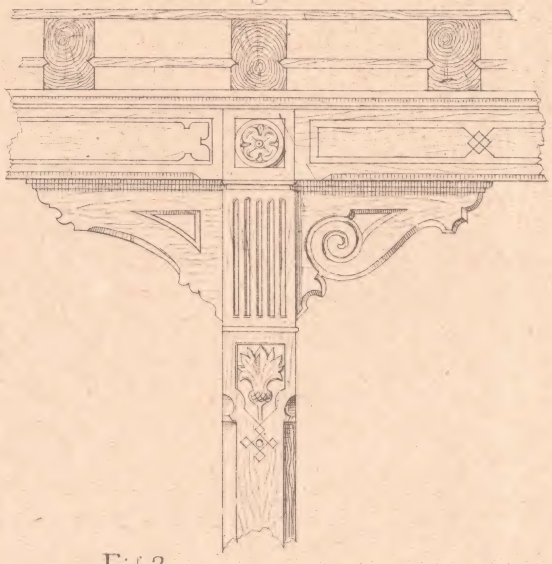

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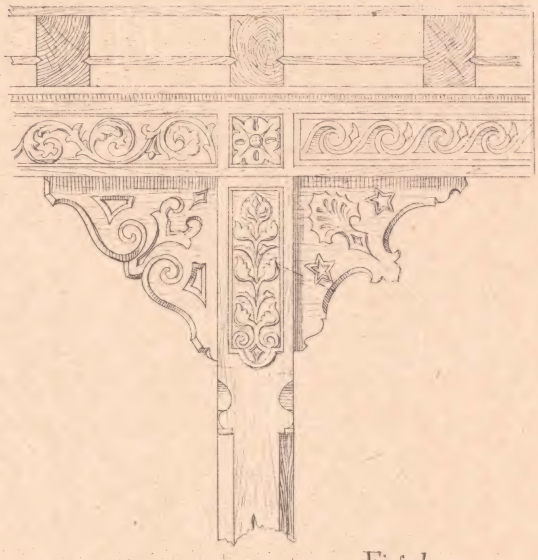

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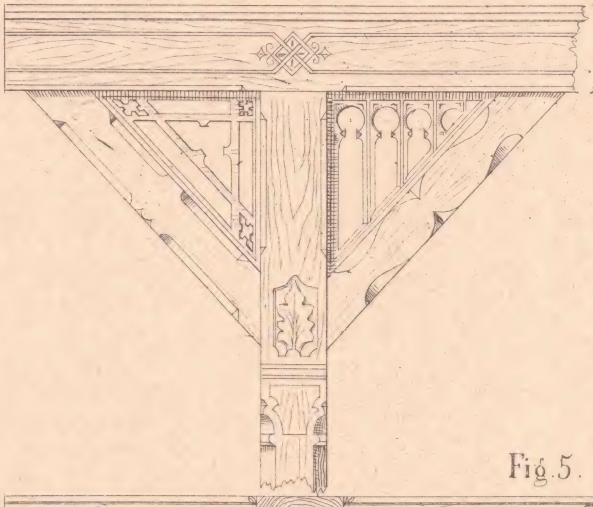

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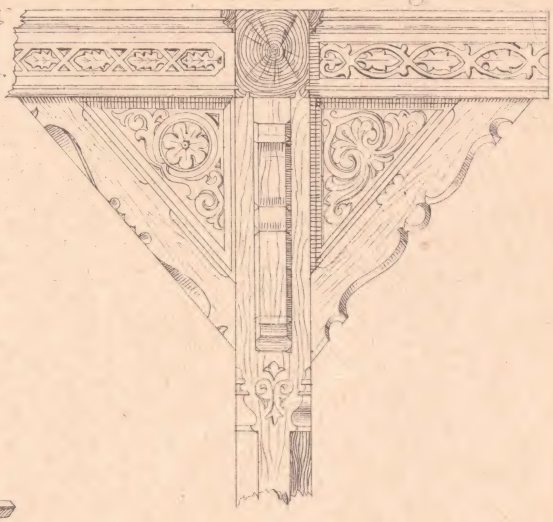

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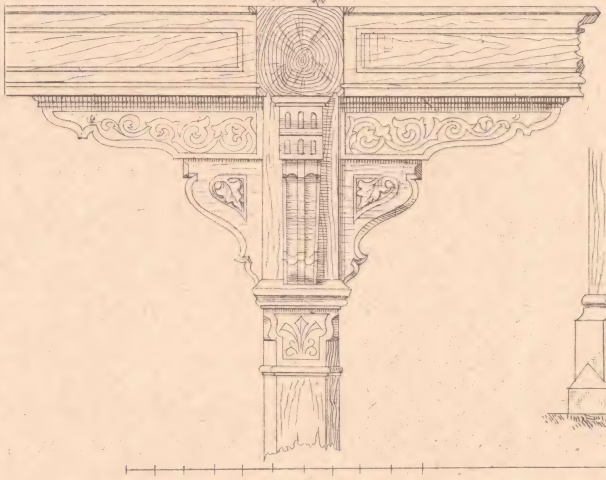

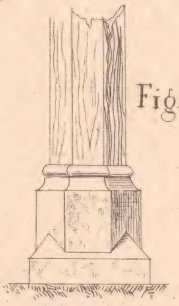

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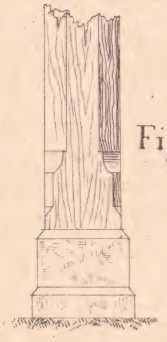

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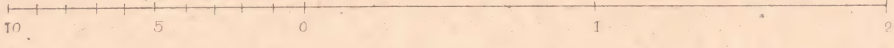

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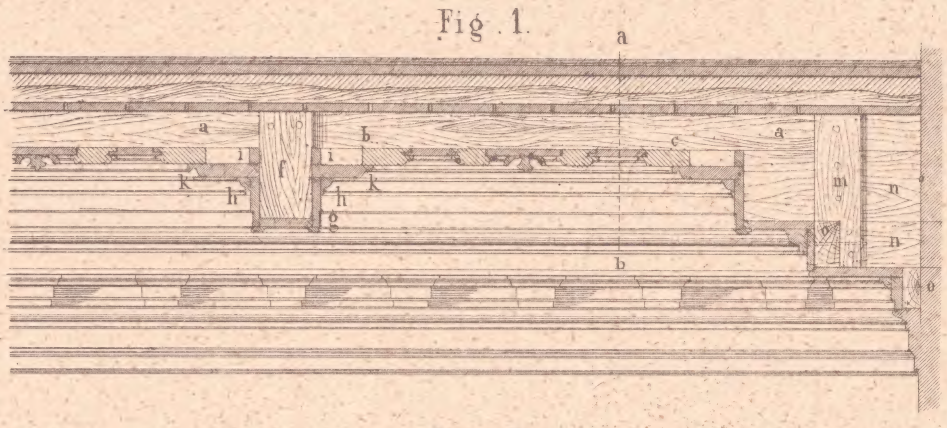

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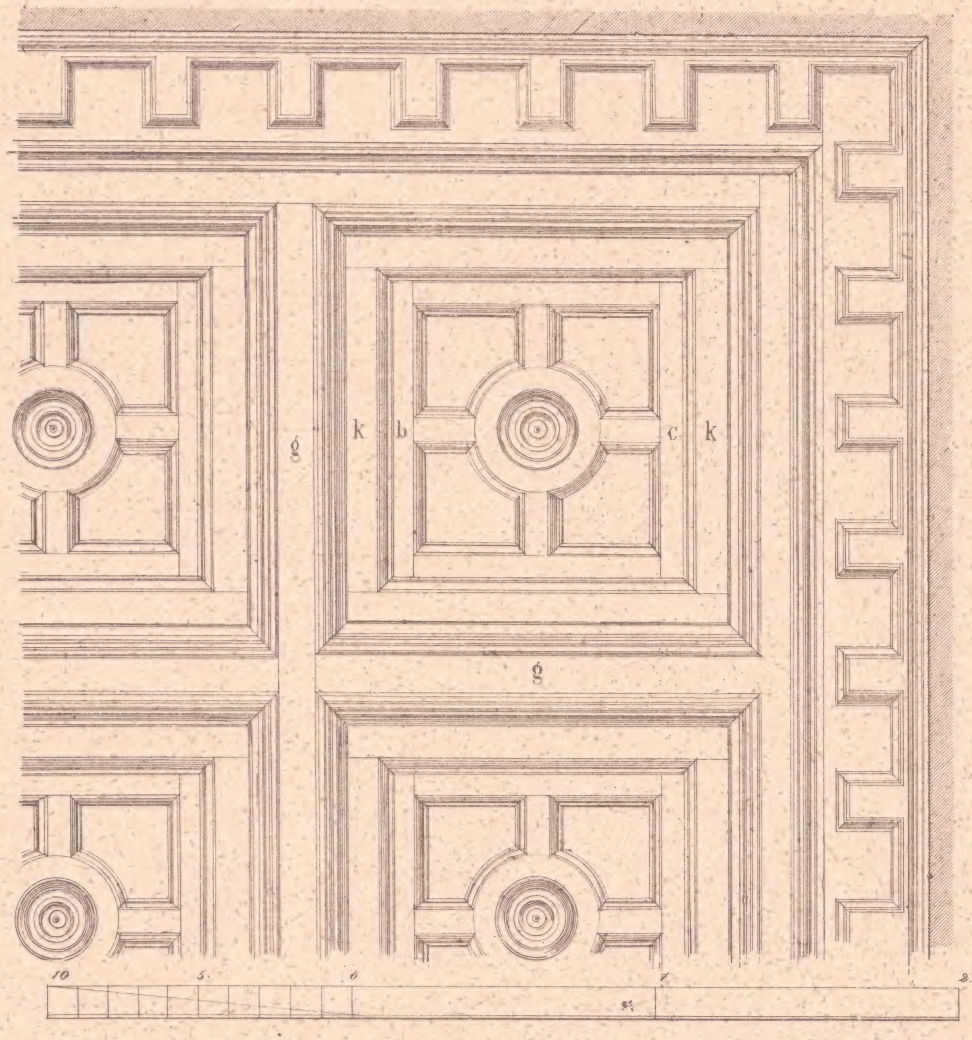
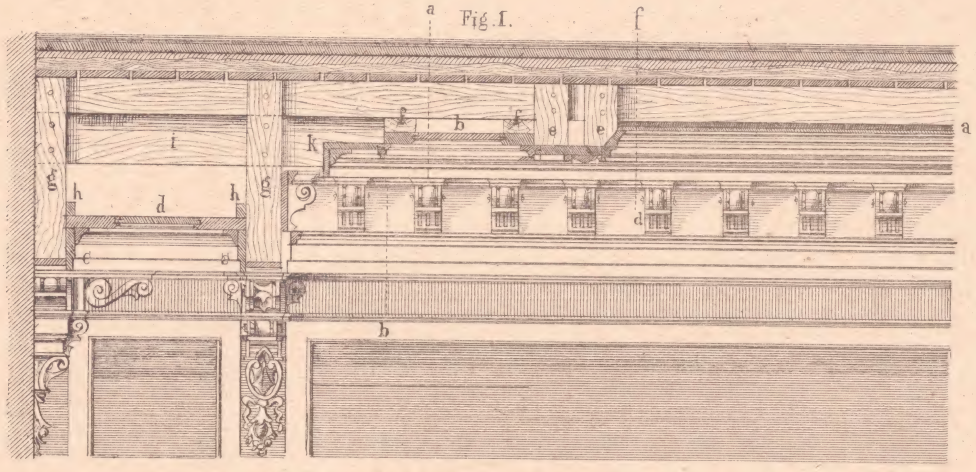
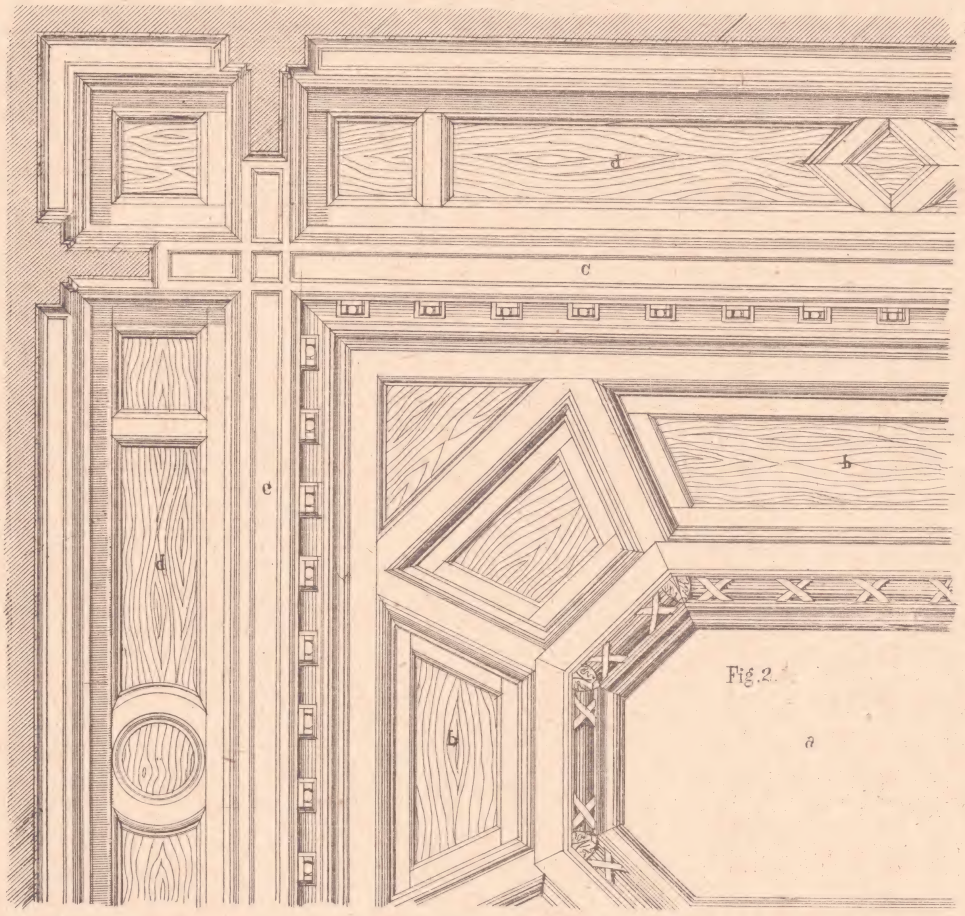


Fig. I.





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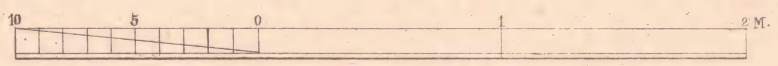

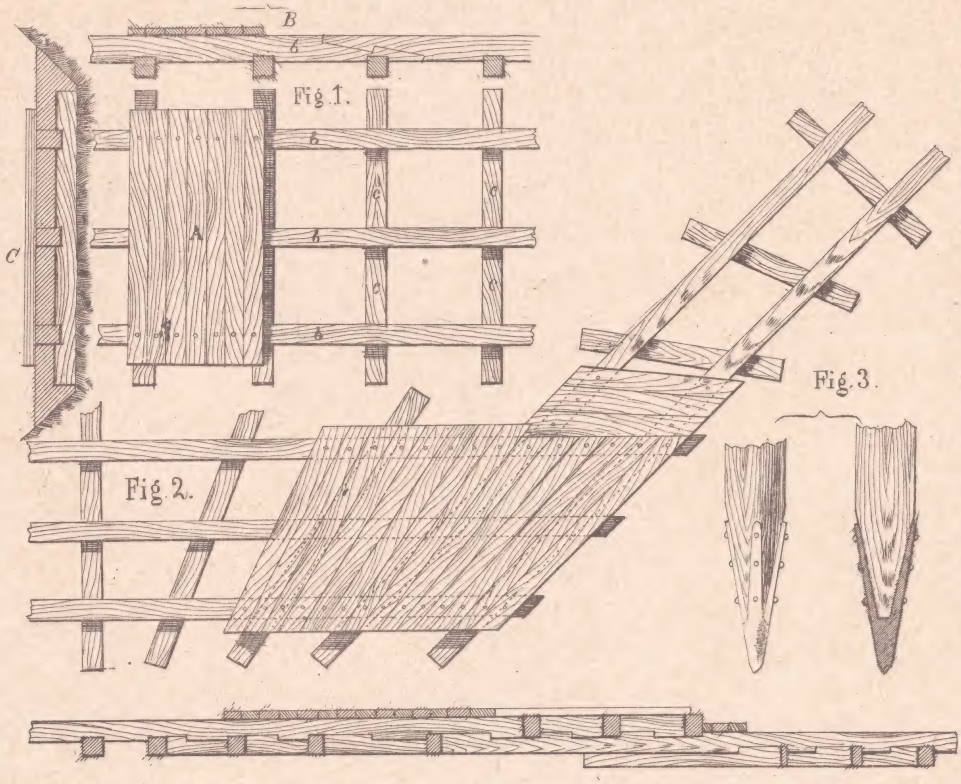
B
b
Fig. 1.
C
A
c
Fig. 2.
Fig. 3.
Fig. 4

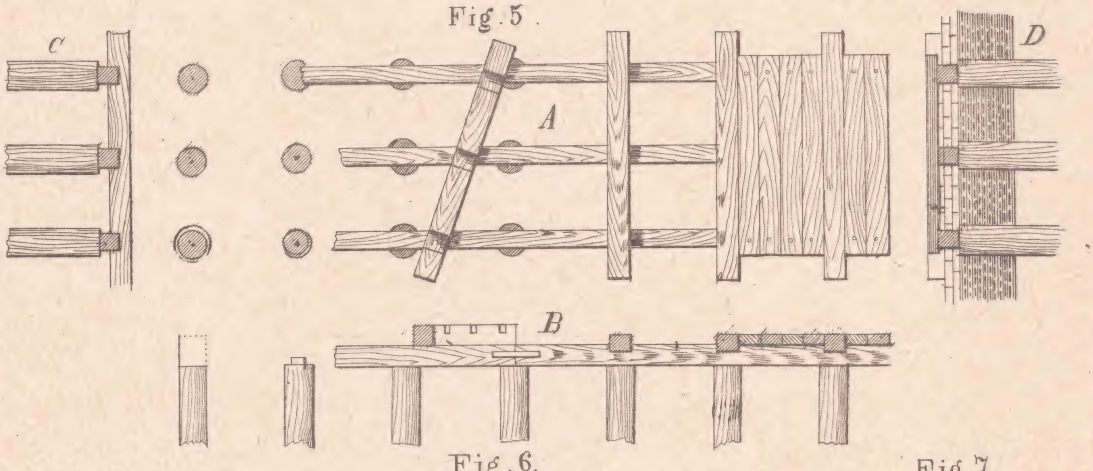
Fig. 5
C
A
D
B

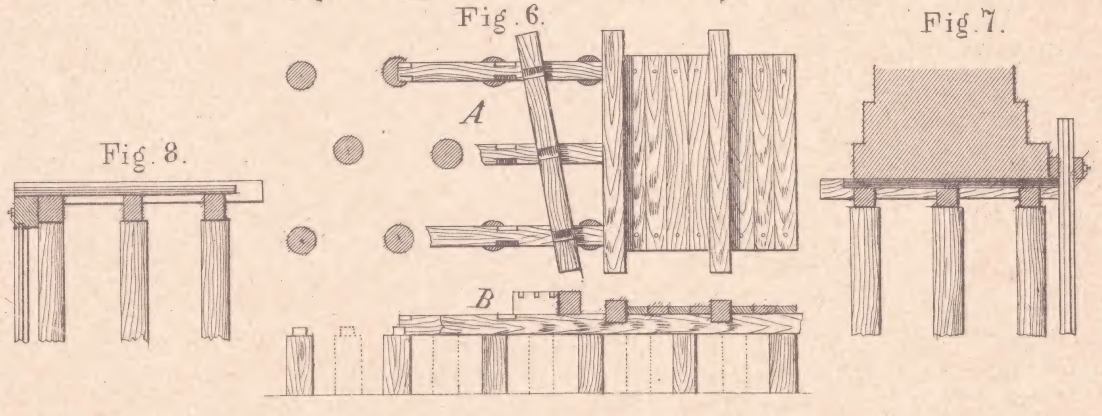
Fig. 6.
Fig. 7.
Fig. 8.
A
B

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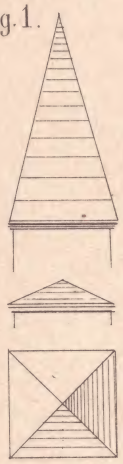

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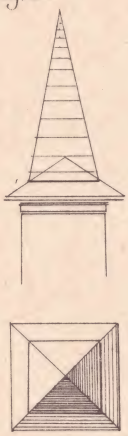

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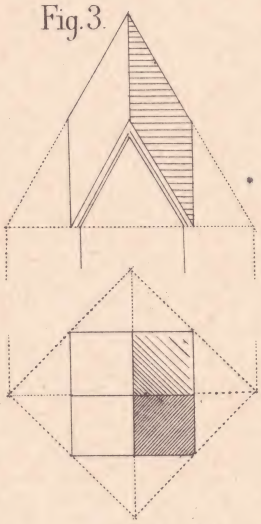

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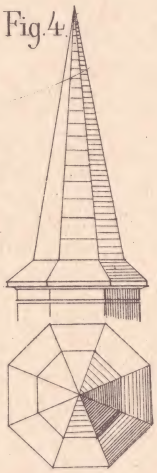

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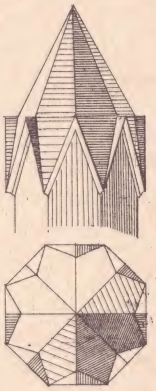

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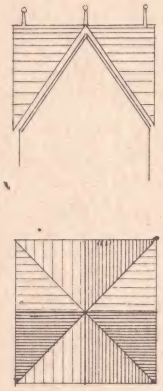

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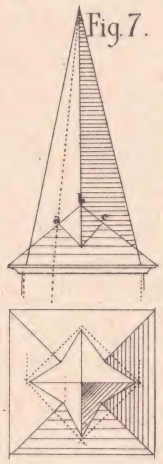

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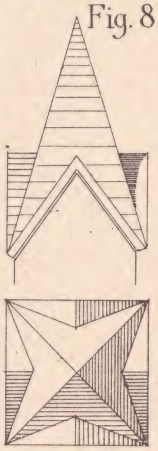

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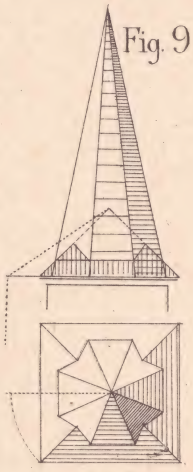

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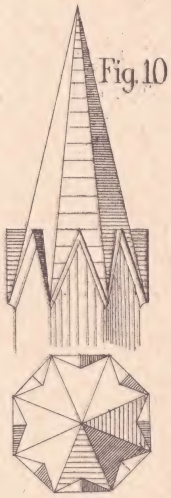

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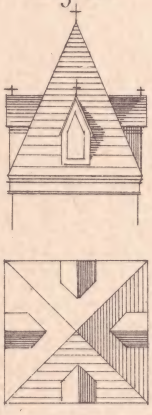

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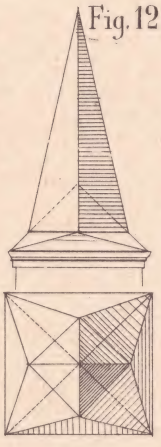

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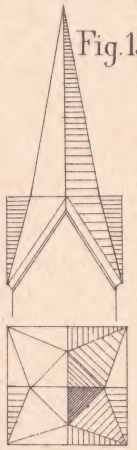

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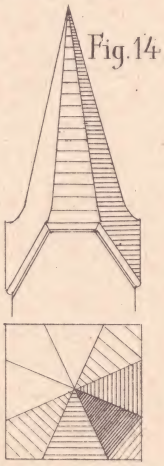

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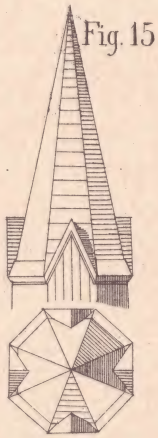


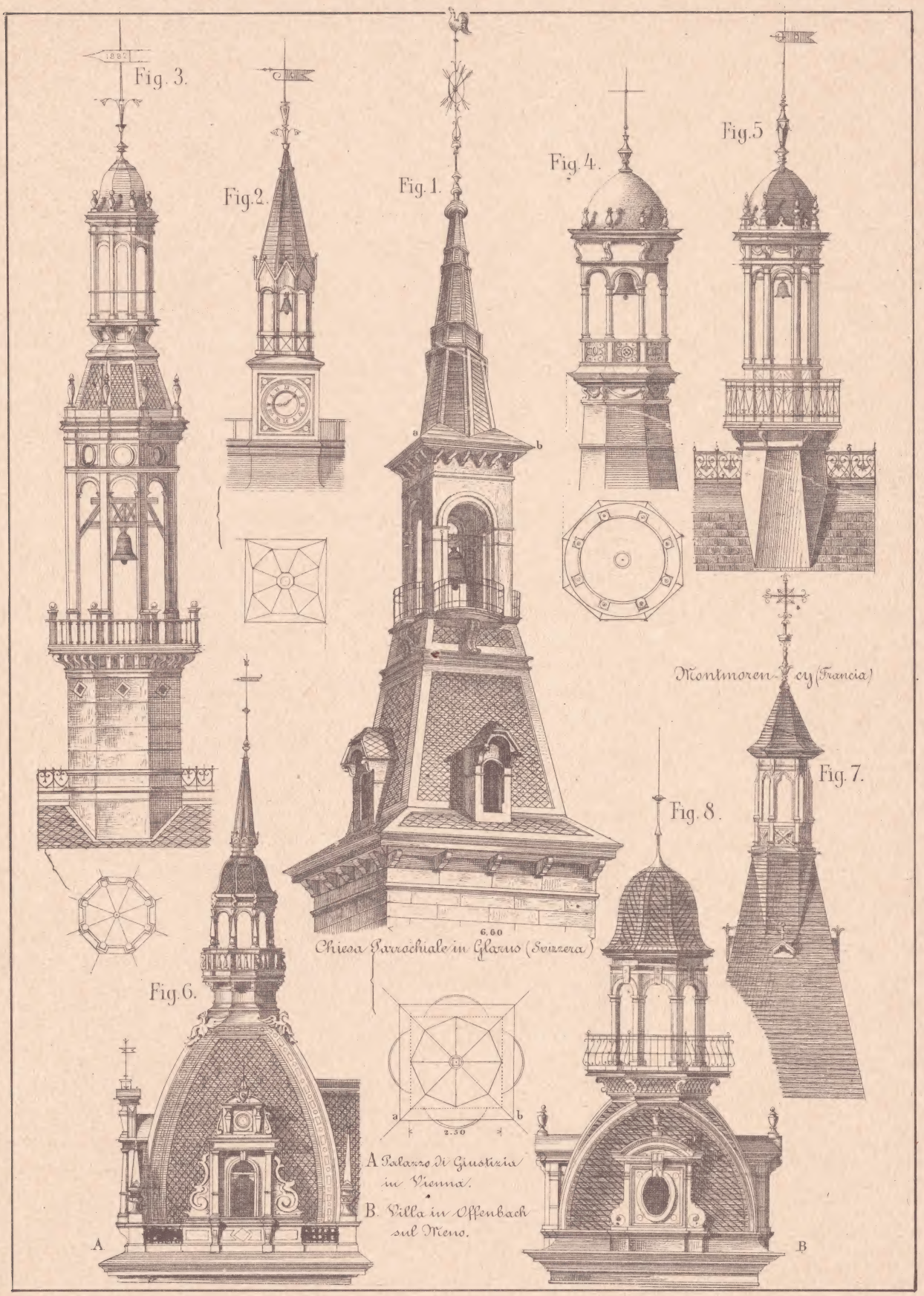
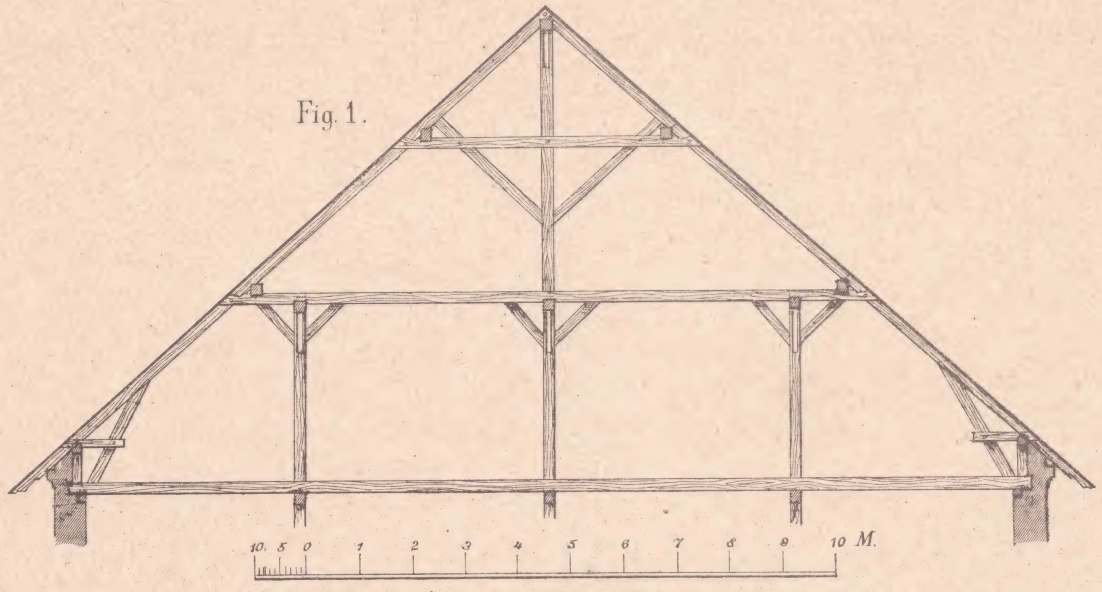


Fig. 3.
Fig. 2.
Fig. 1.
Fig. 4.
Fig. 5
Montmoren- cy (Francia)
Fig. 7.
Fig. 8.
6.60
Chiesa Parrochiale in Glarus (Svizzera)
Fig. 6.
a
b
2.50
A Palazzo di Giustizia in Vienna.
B. Villa in Offenbach sul Meno.
A
B

Fig. 1.



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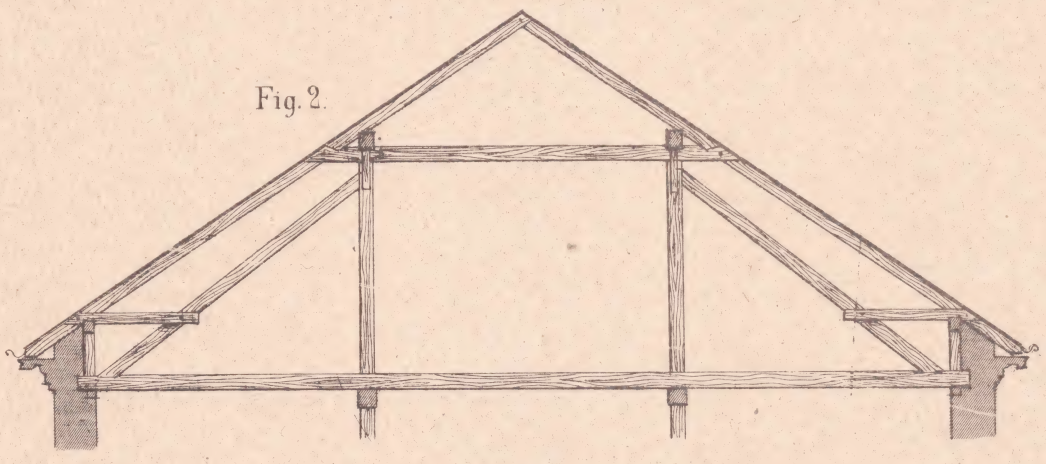

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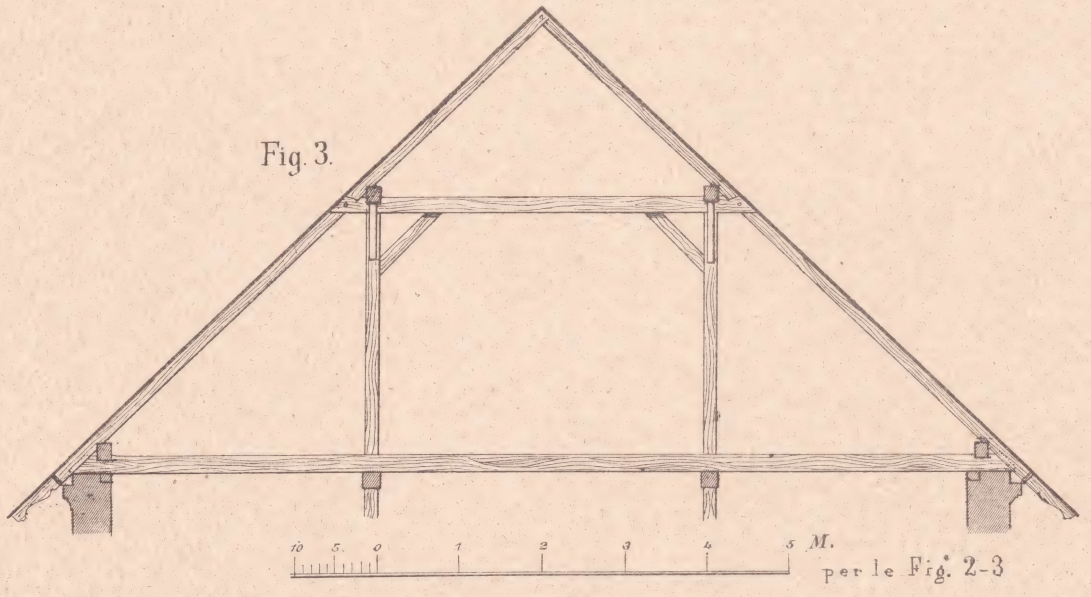

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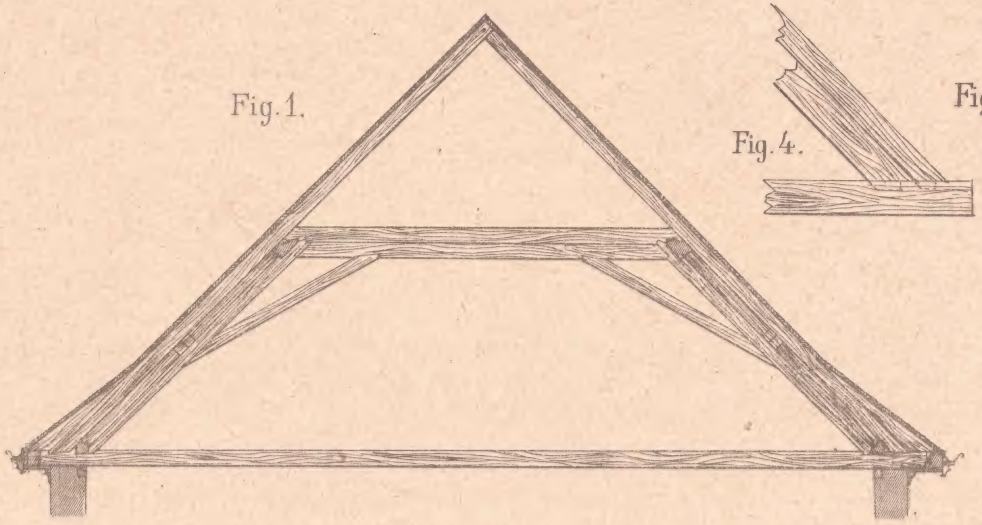

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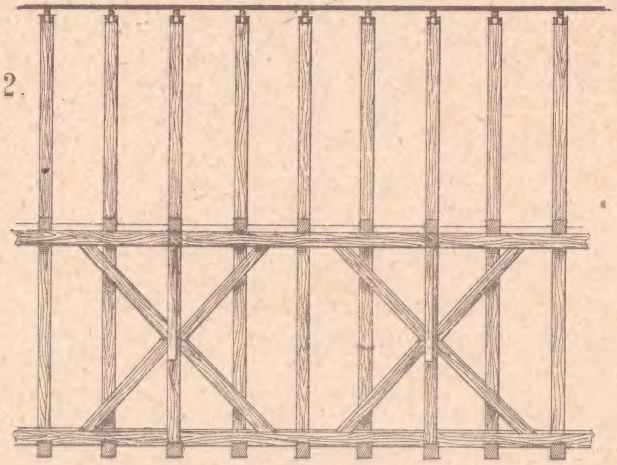

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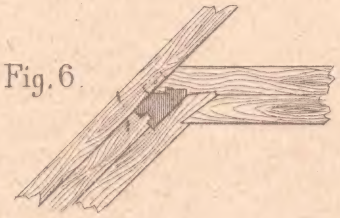

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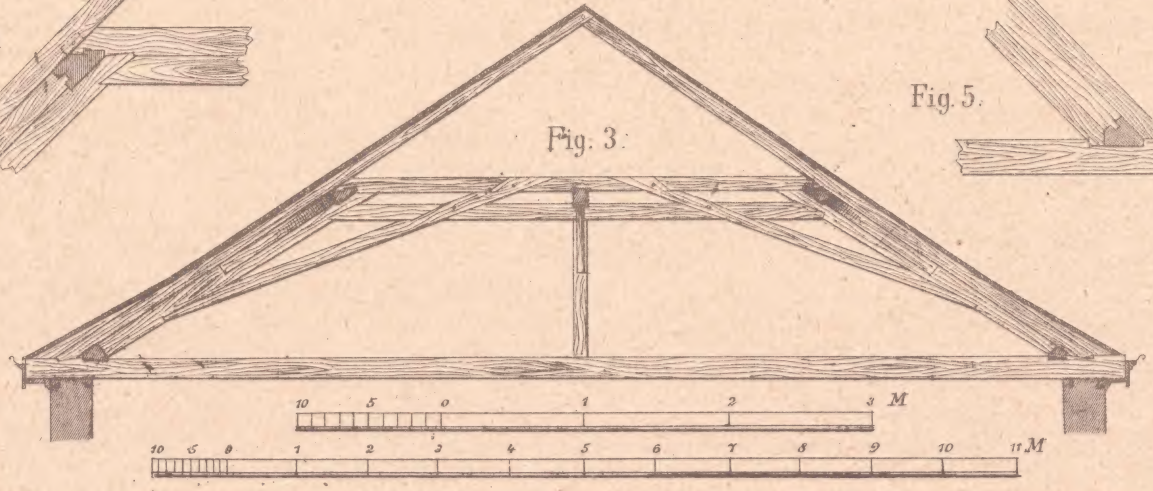

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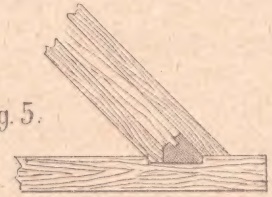

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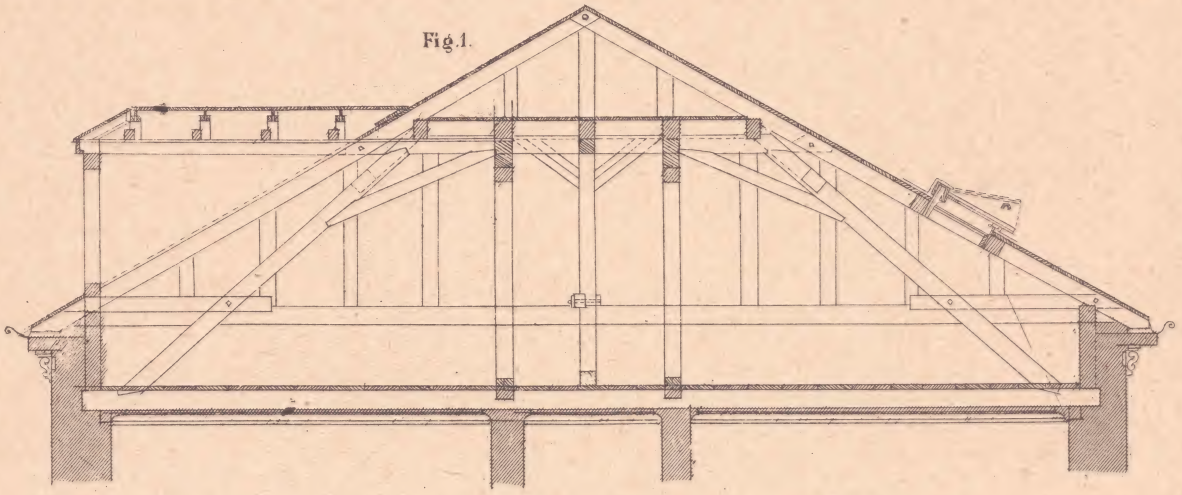

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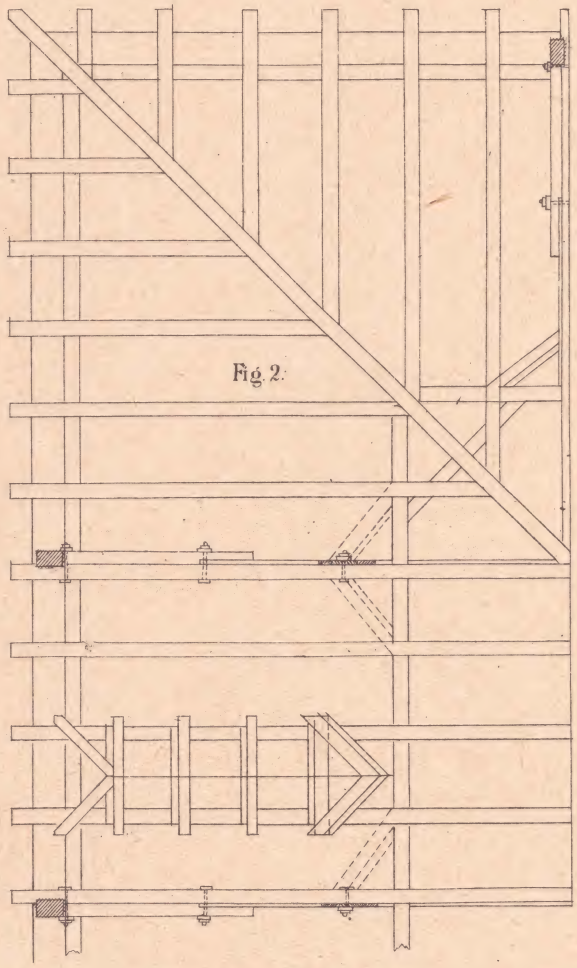

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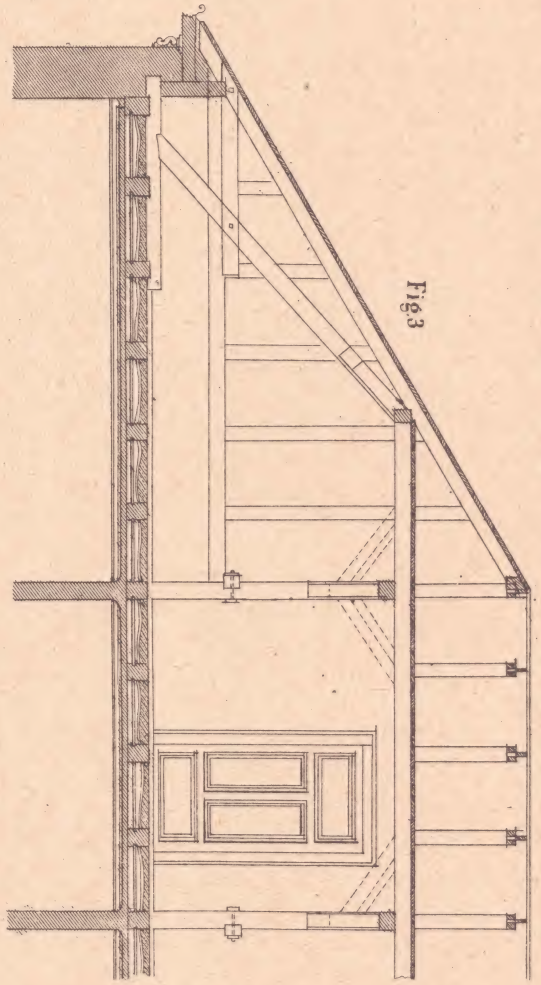
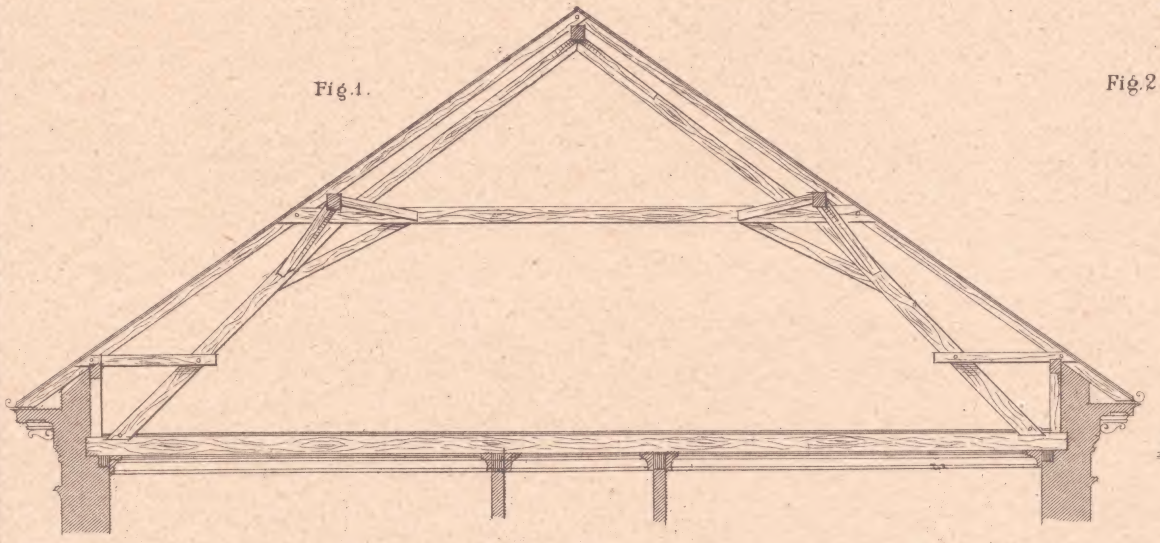


Fig.1.



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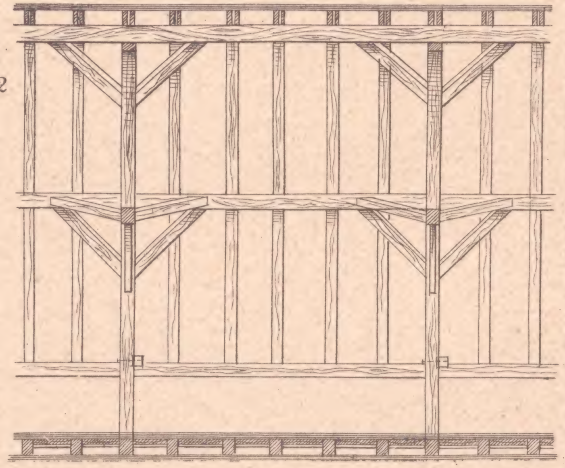

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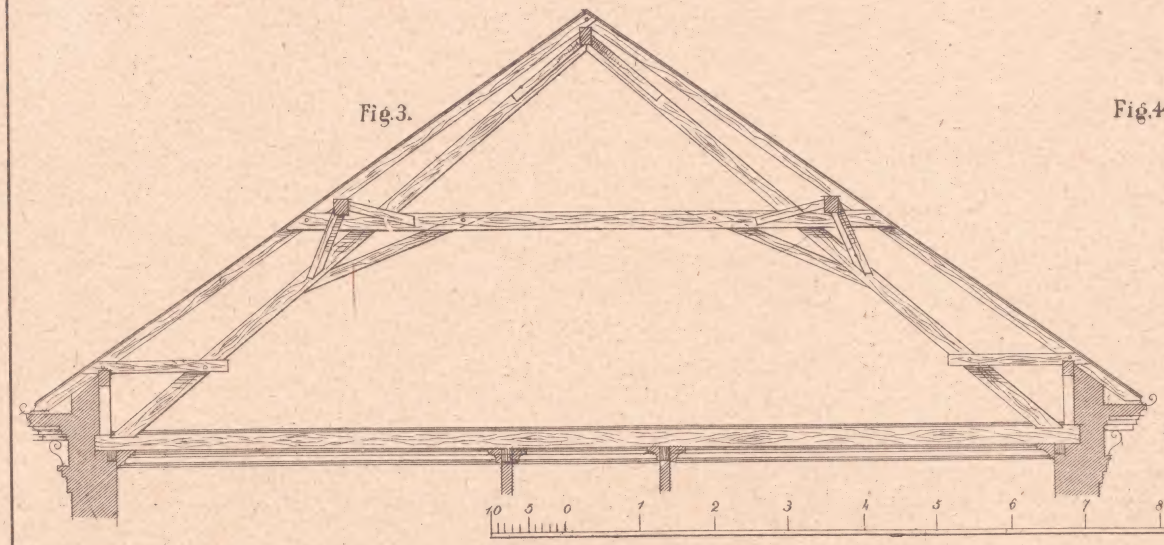

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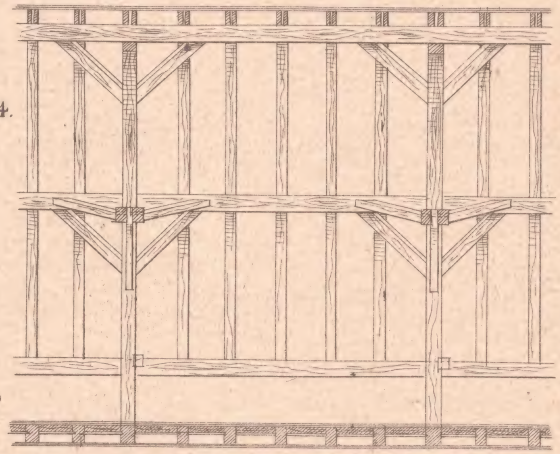

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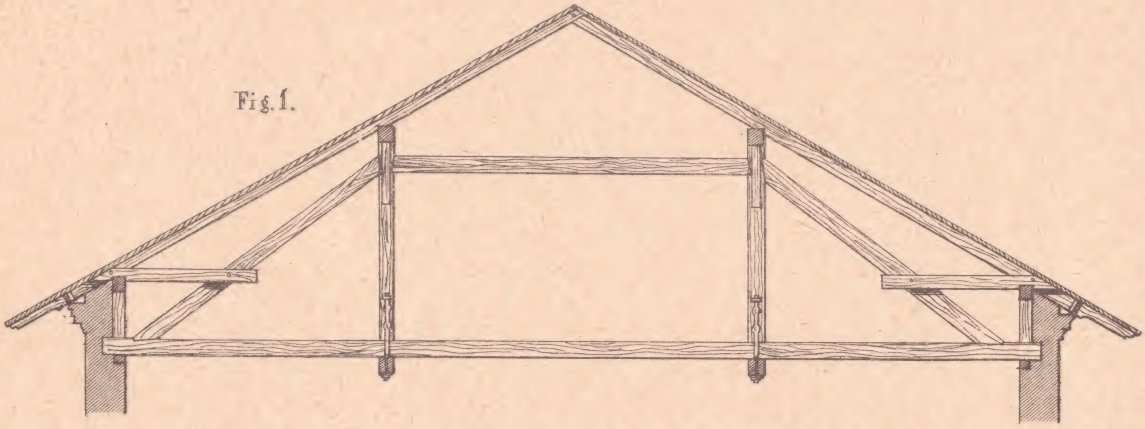

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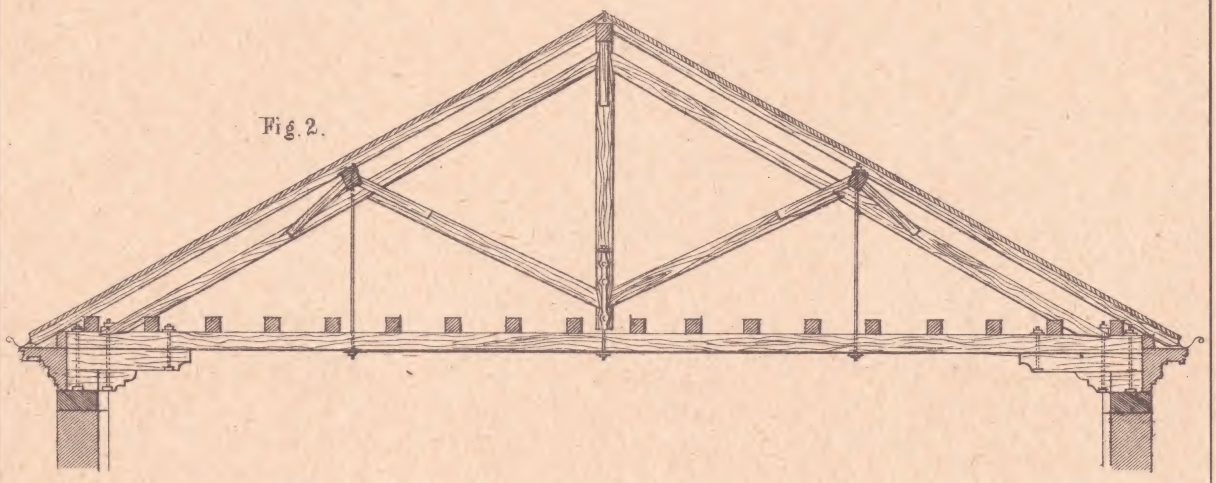

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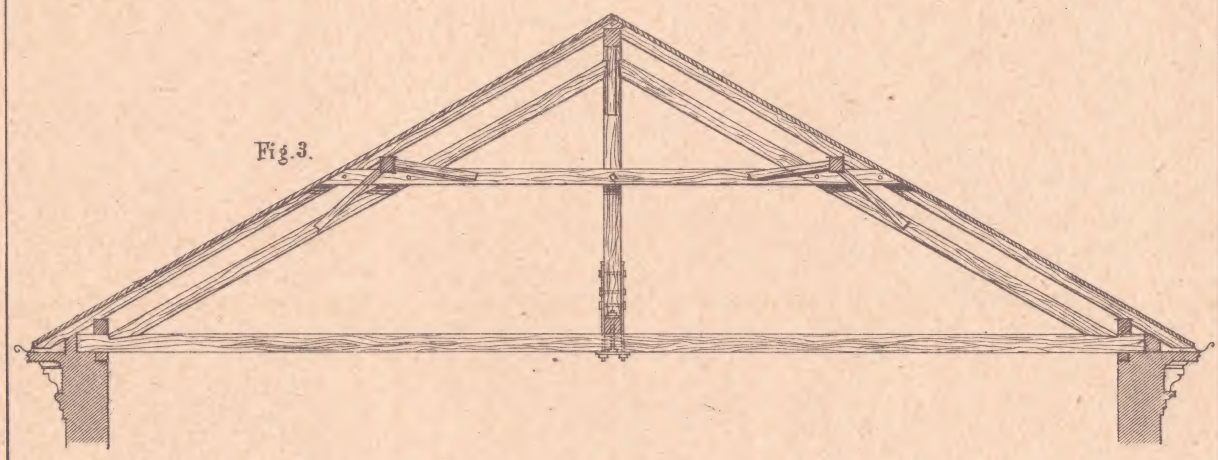

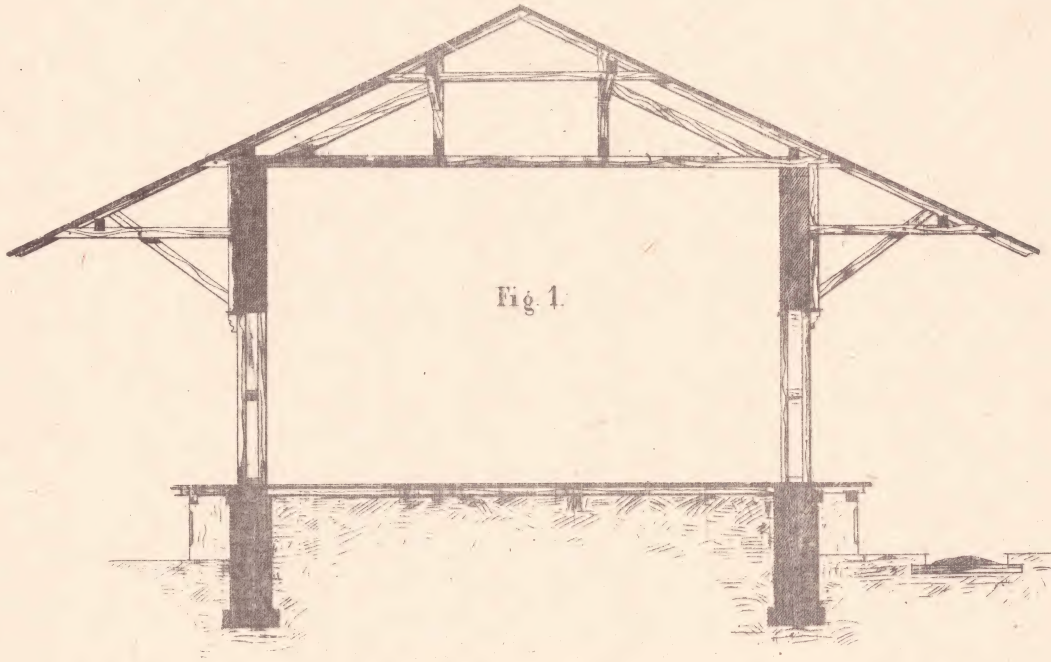

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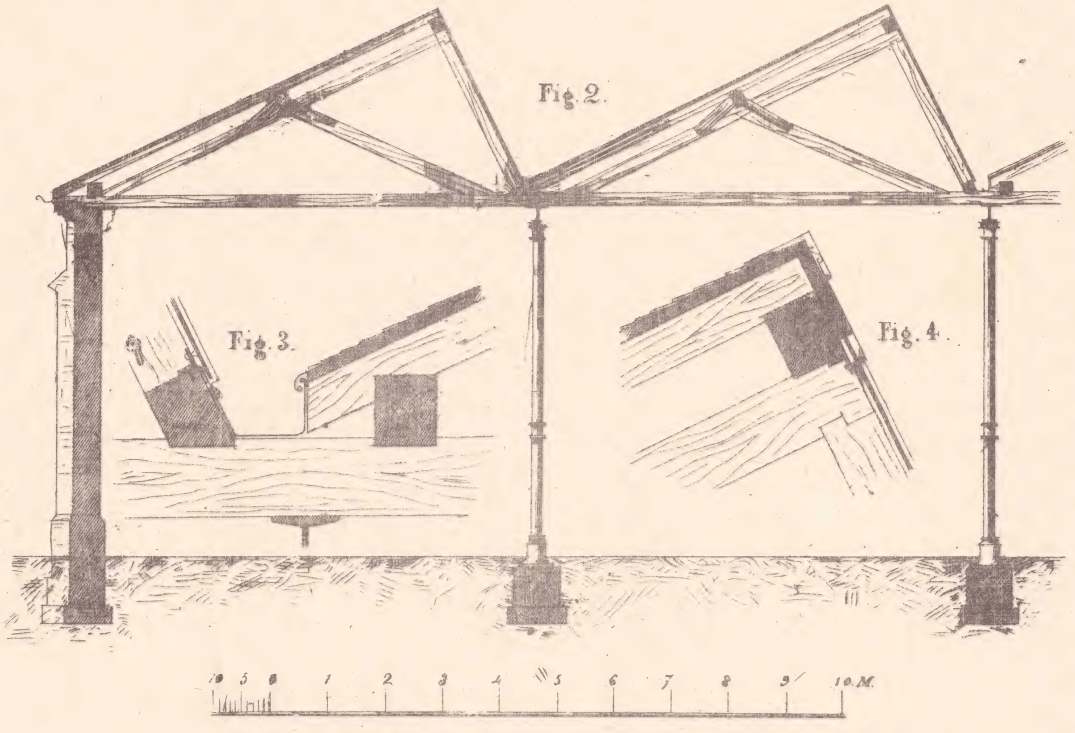
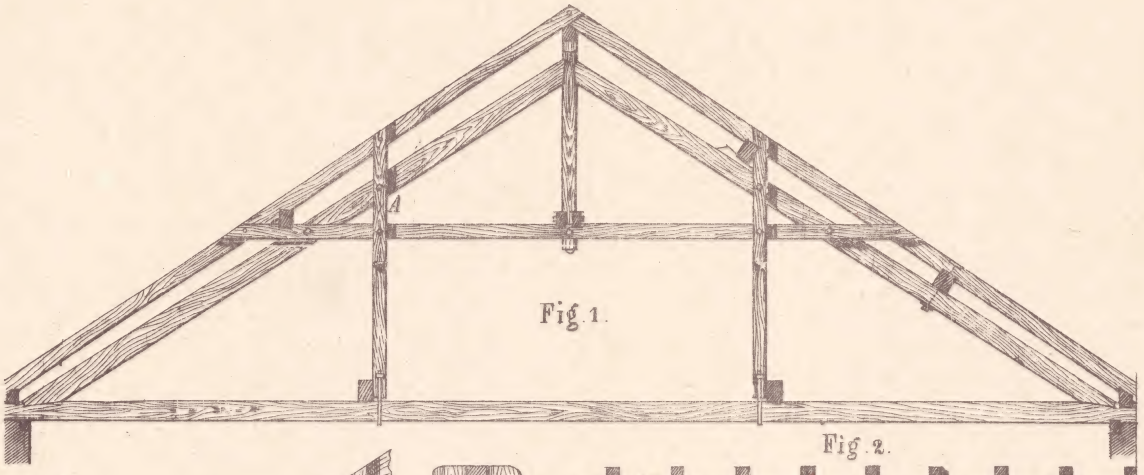


Fig. 2.

Fig. 3.

Fig. 4.



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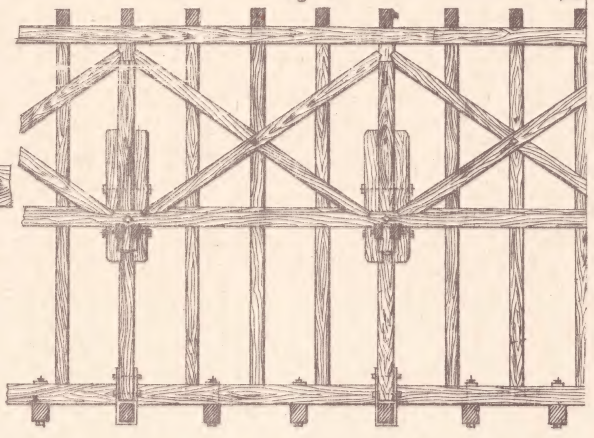

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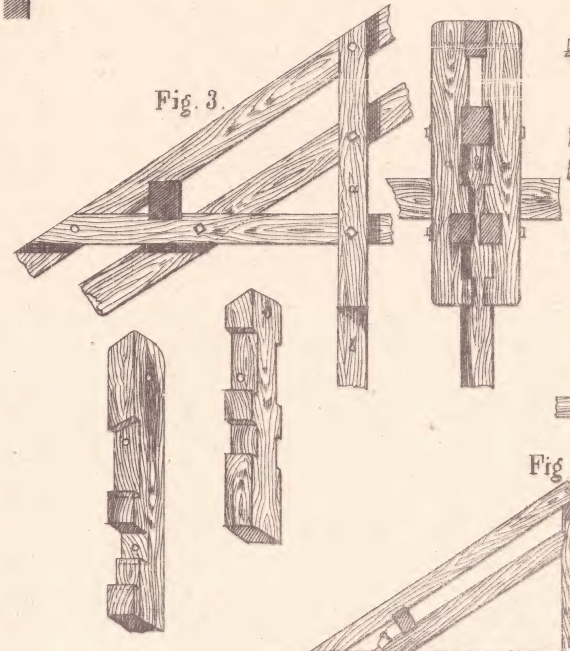

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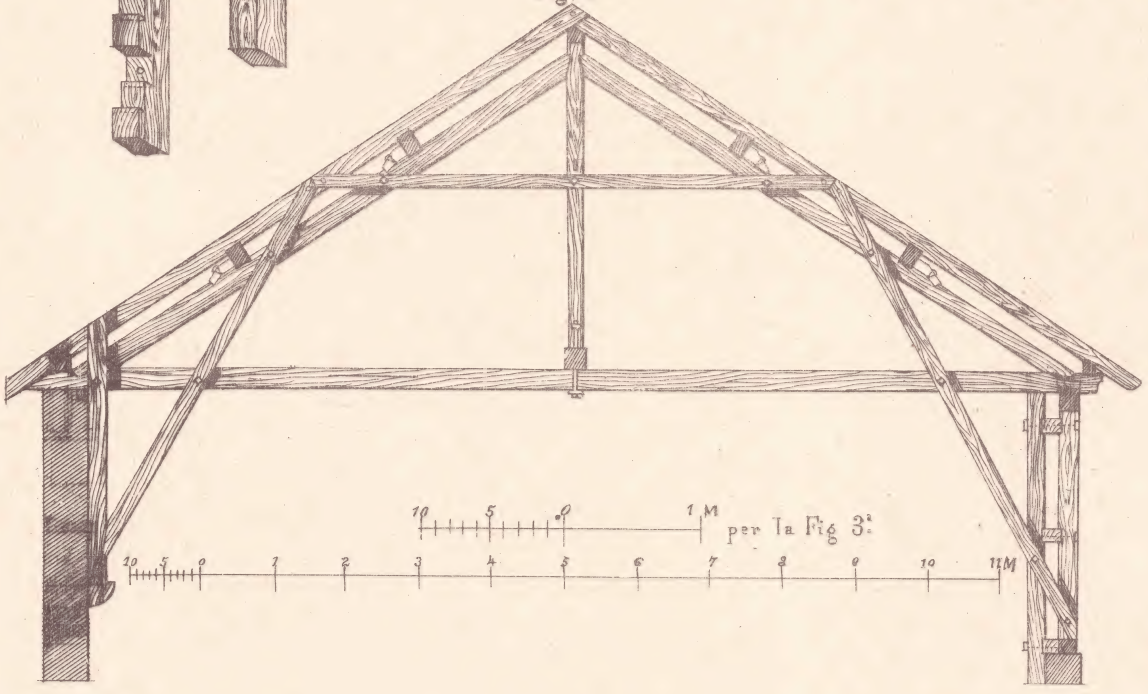

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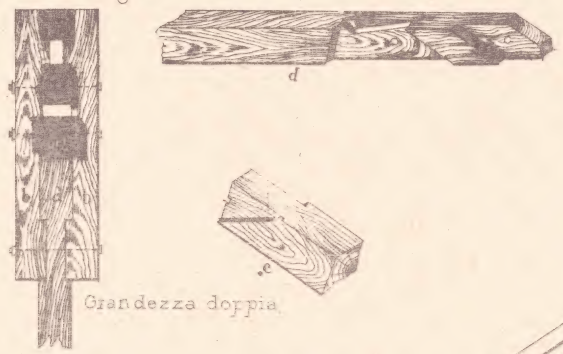

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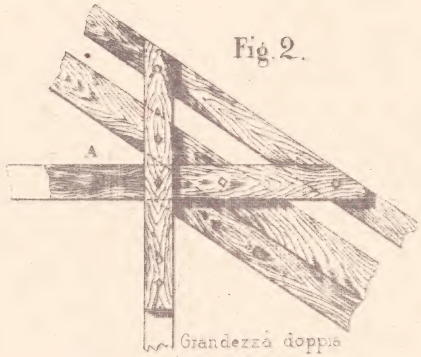

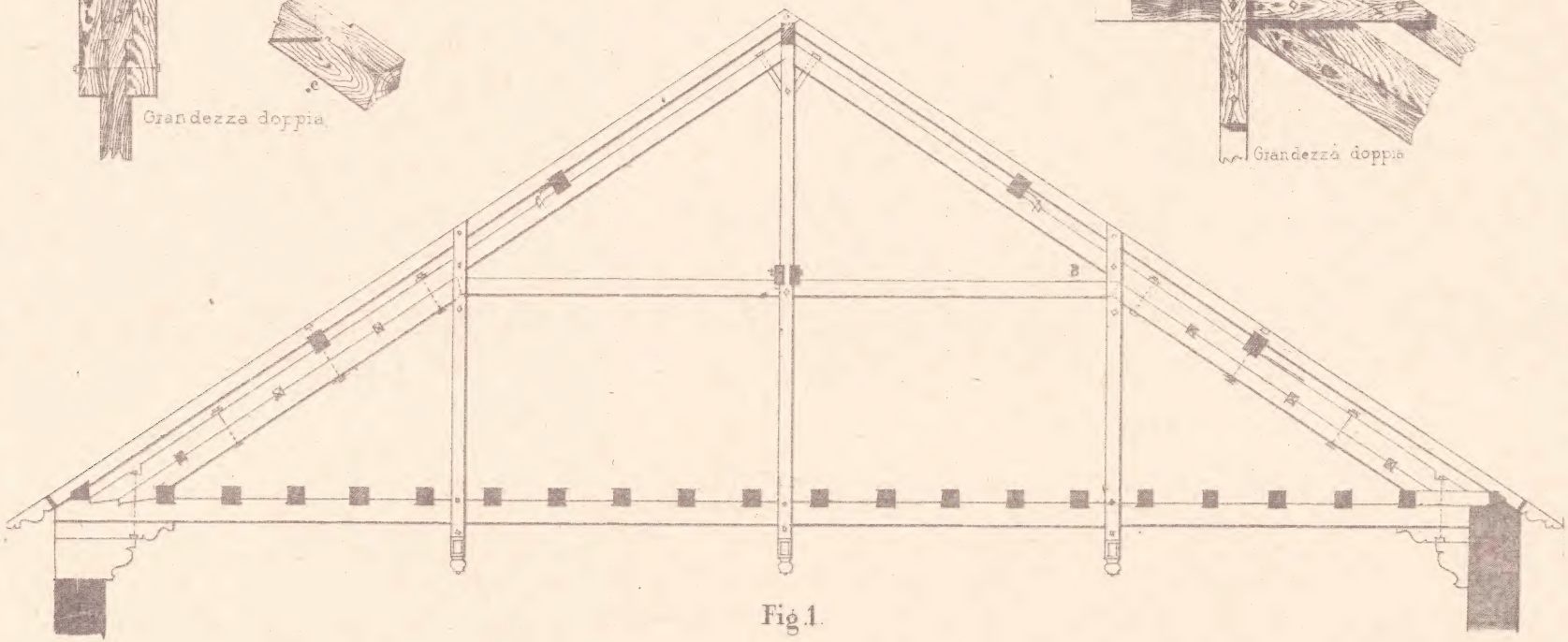

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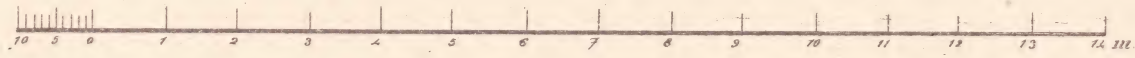

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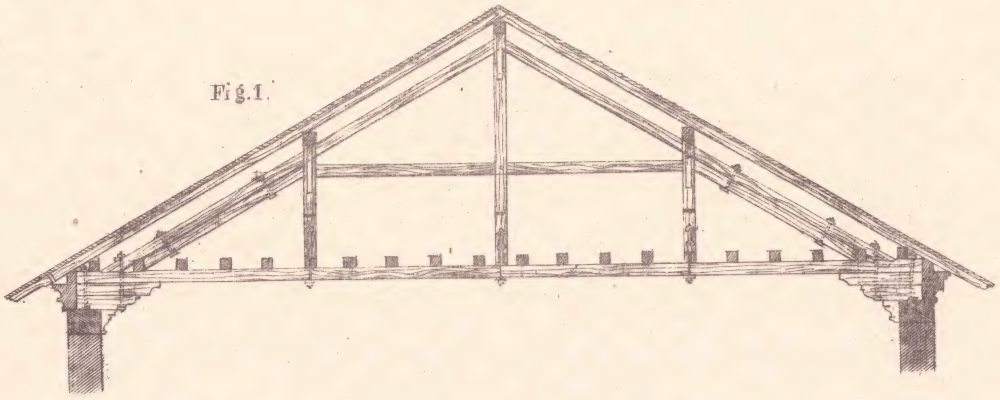

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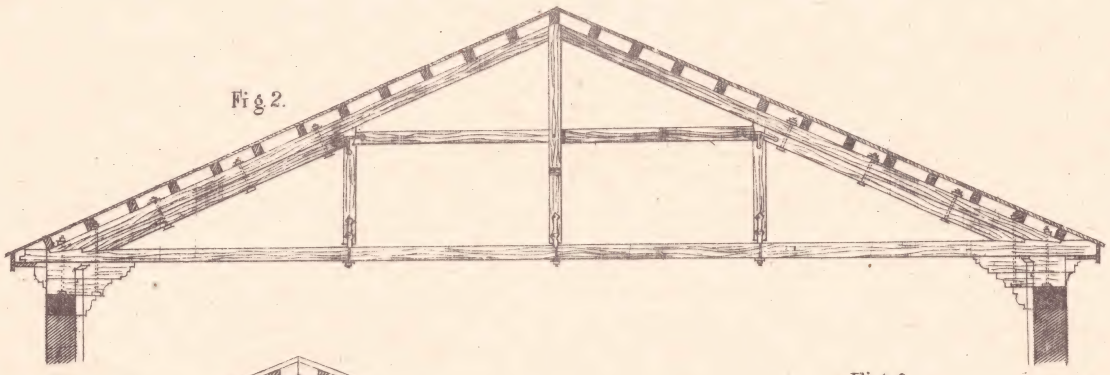

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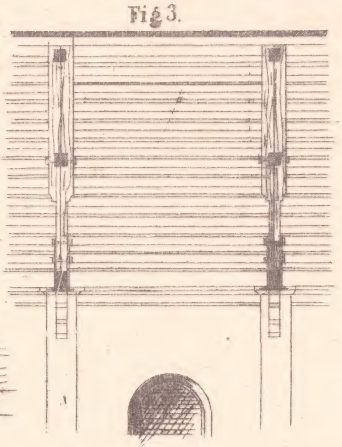

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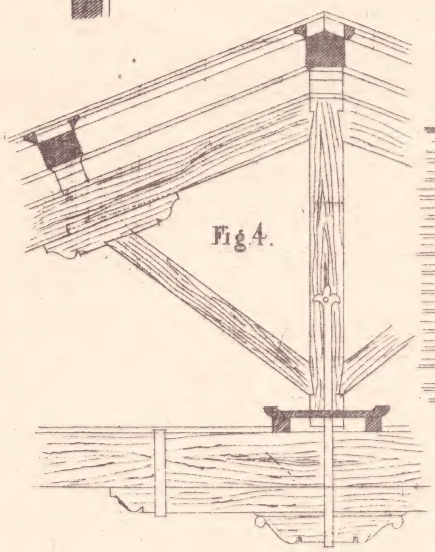

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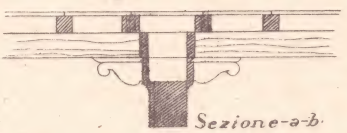

Sezione a-b

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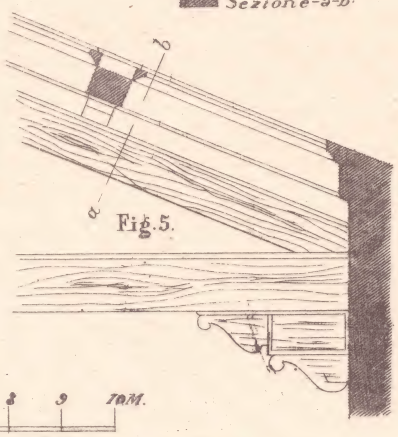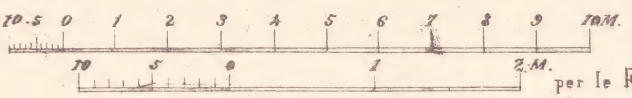

per le Fig 4-5 e 6

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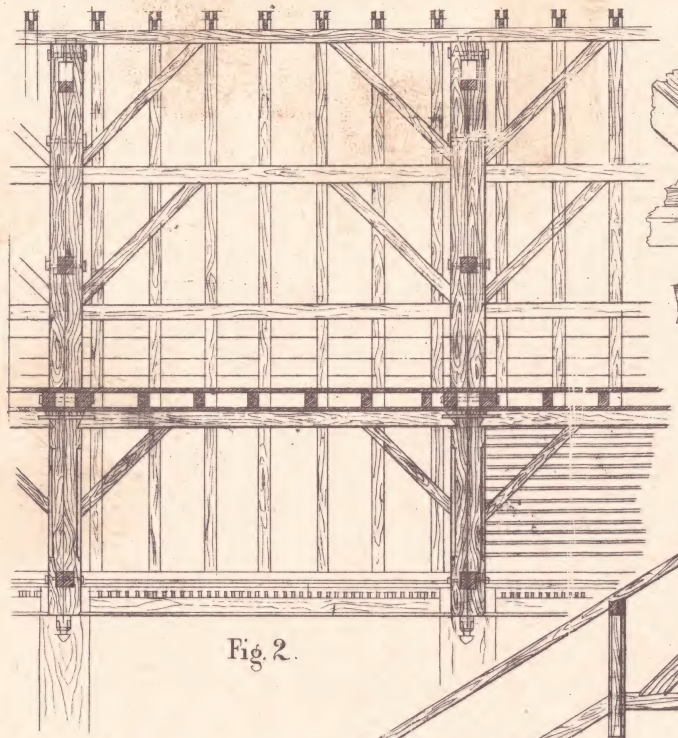

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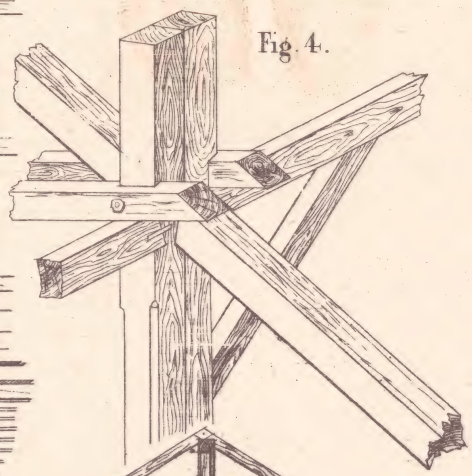

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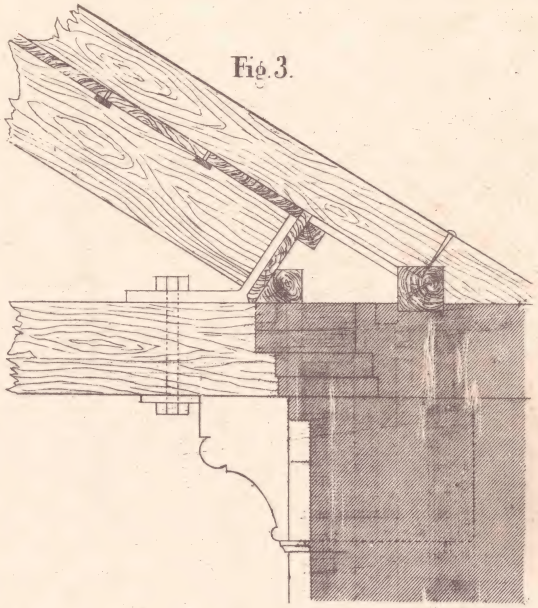

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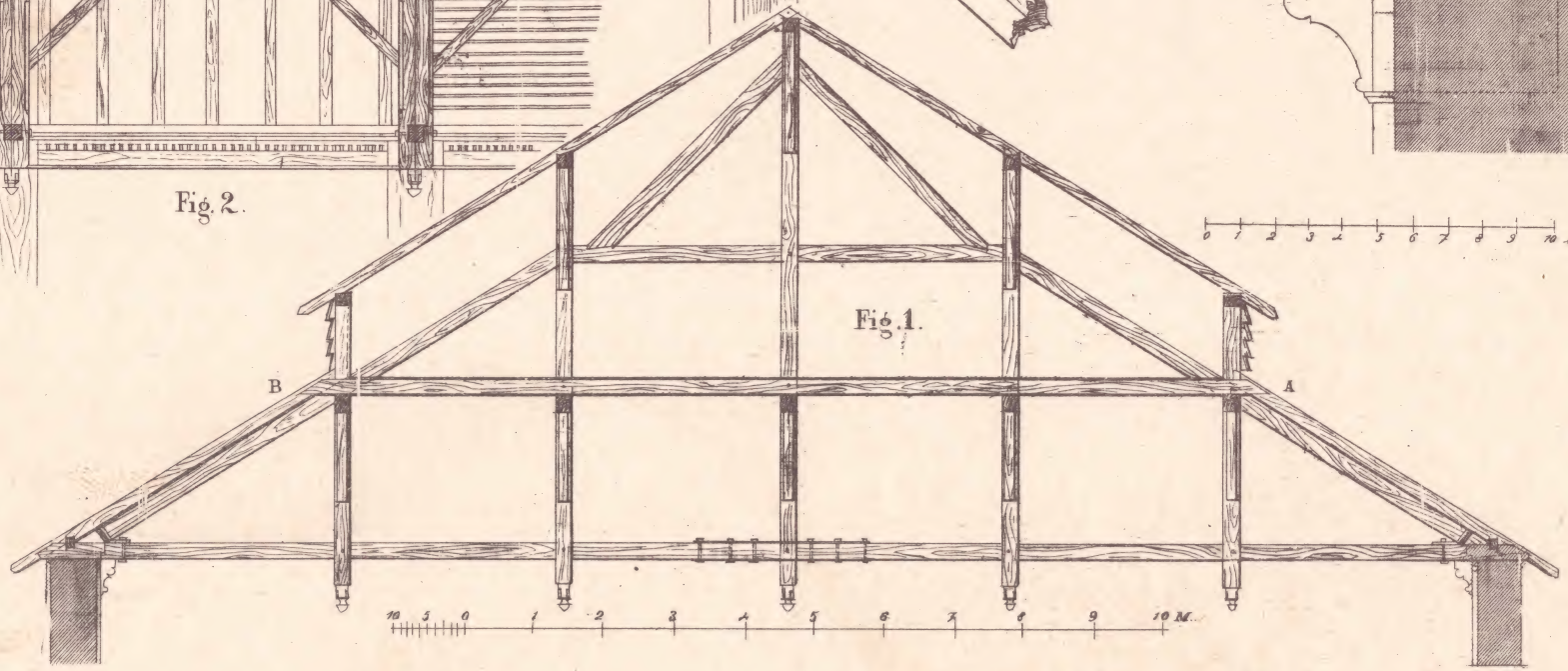

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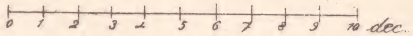

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Breymann II

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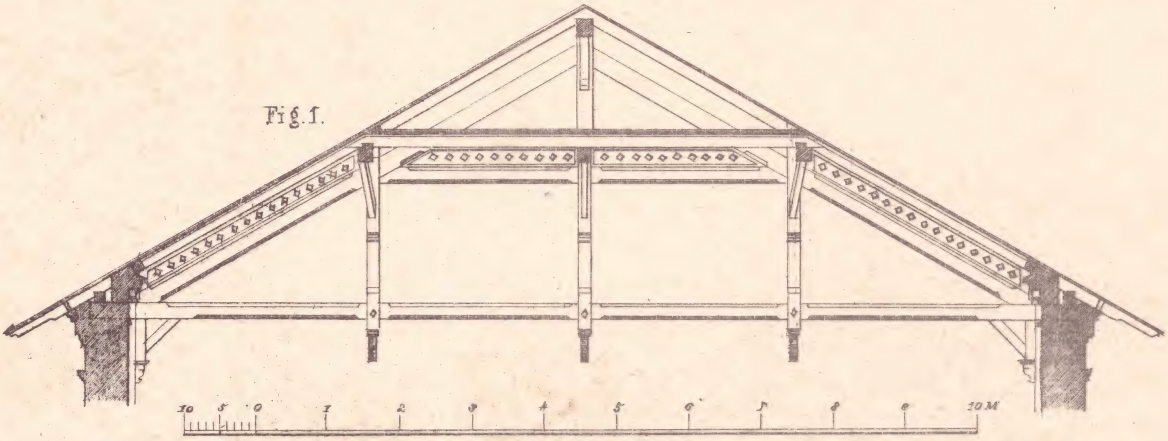

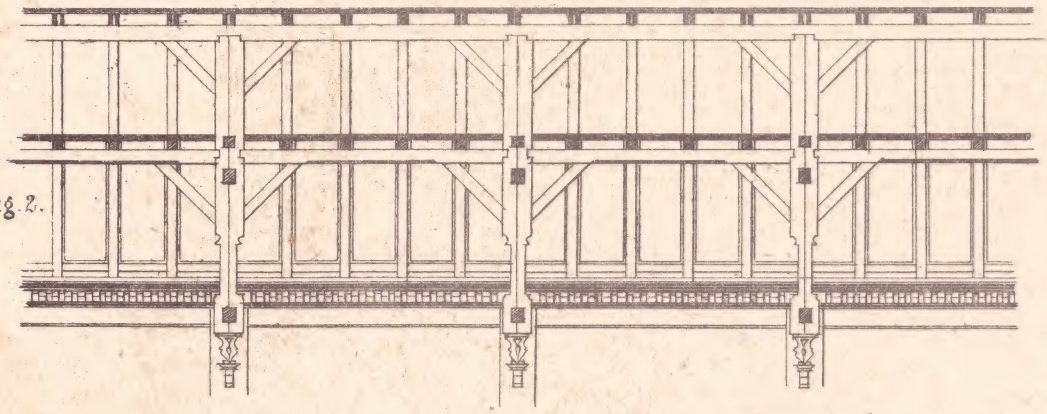

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Fig. 3.

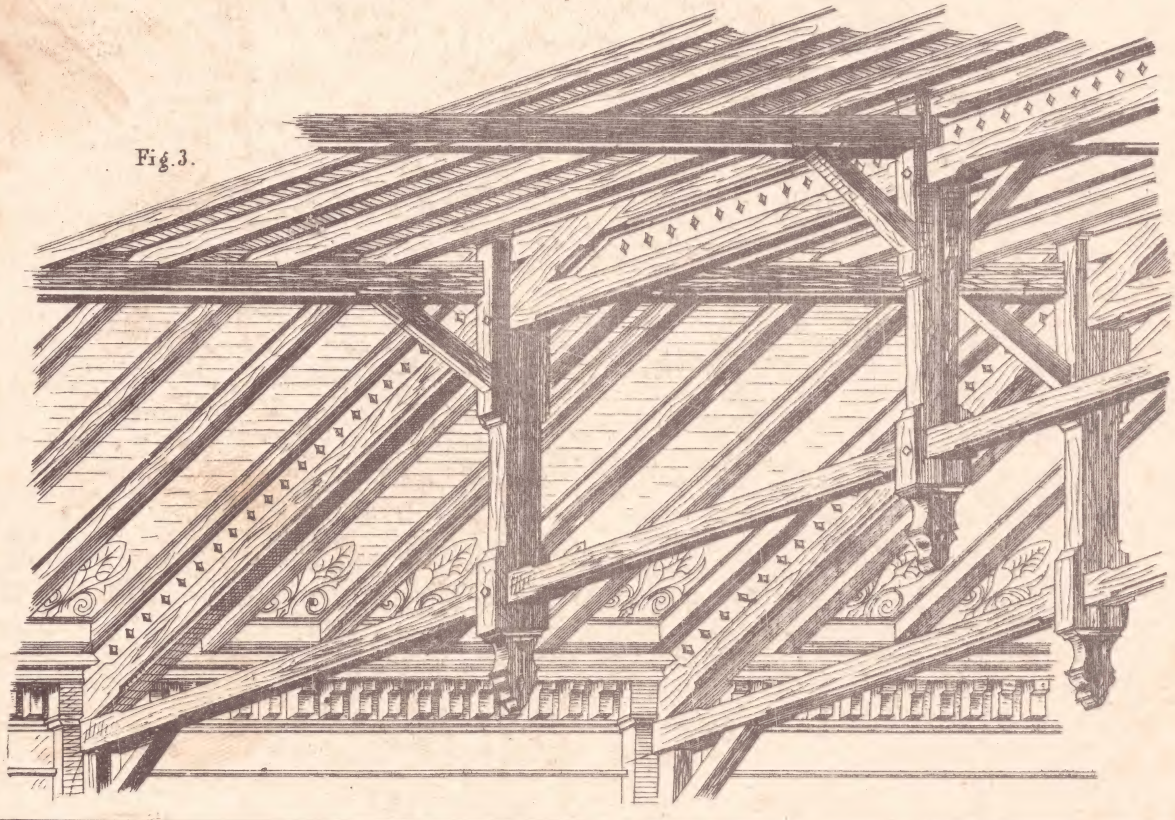
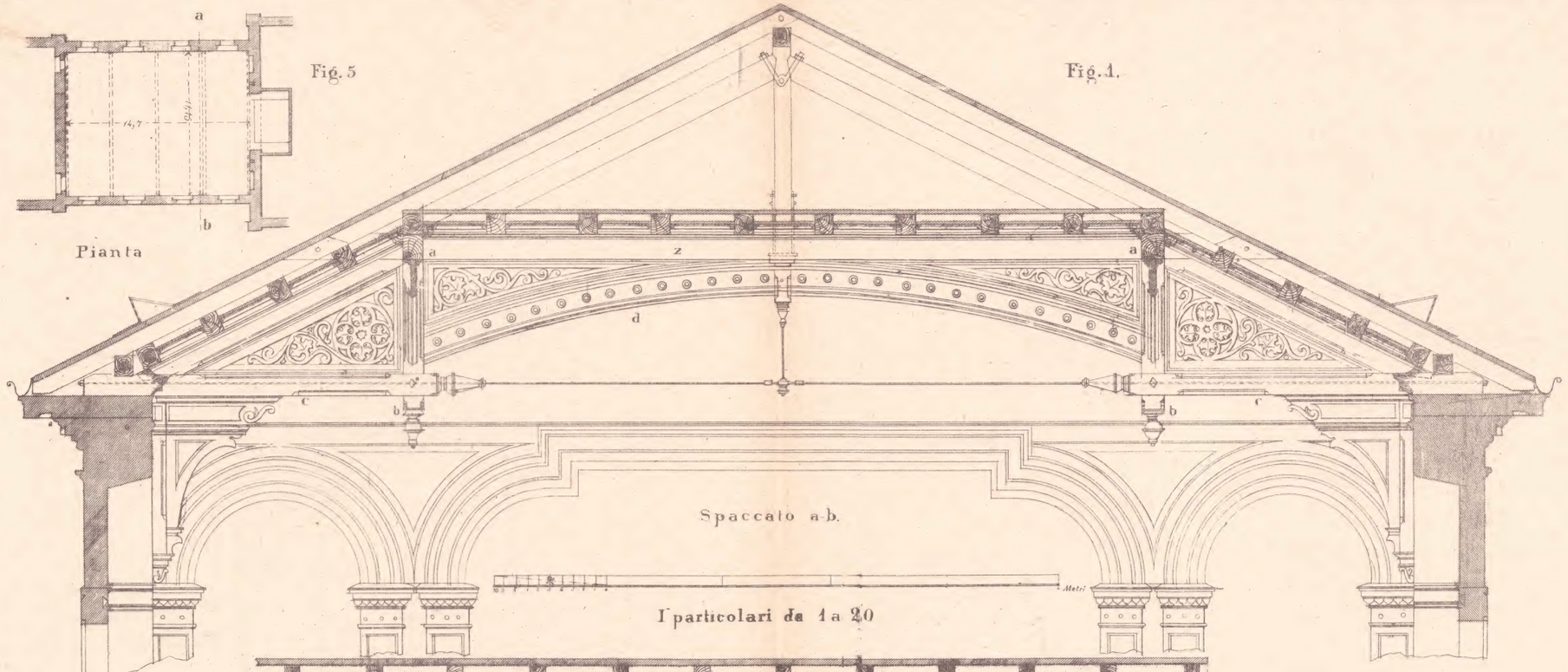


Fig. 5

Pianta

Fig. 1.



Spaccato a-b.

I particolari da 1 a 20

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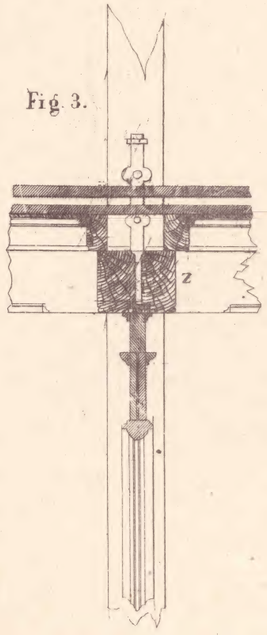

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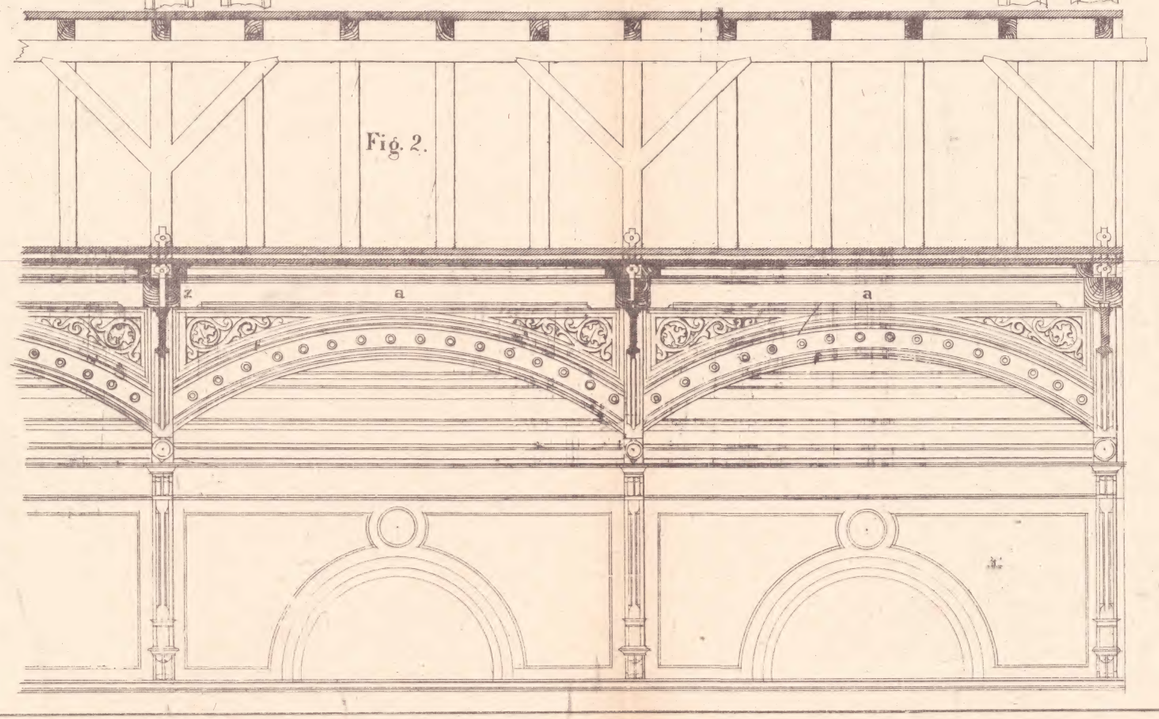

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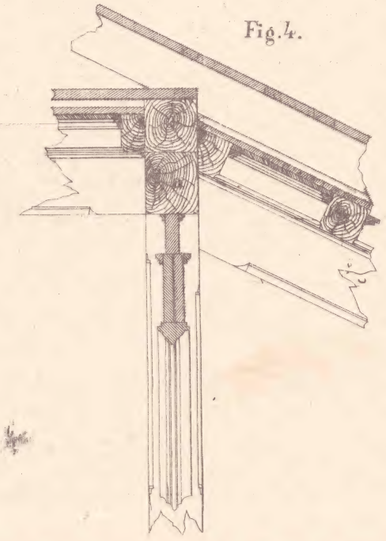

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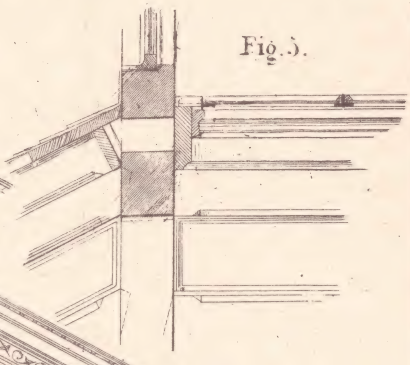

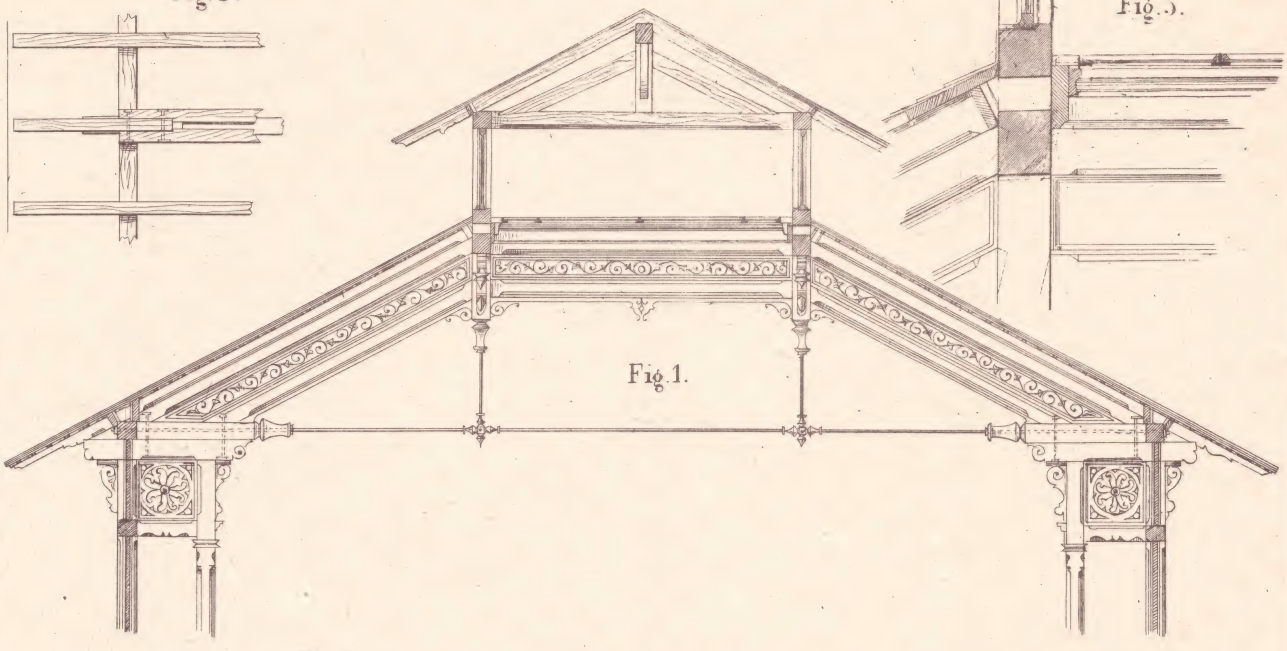

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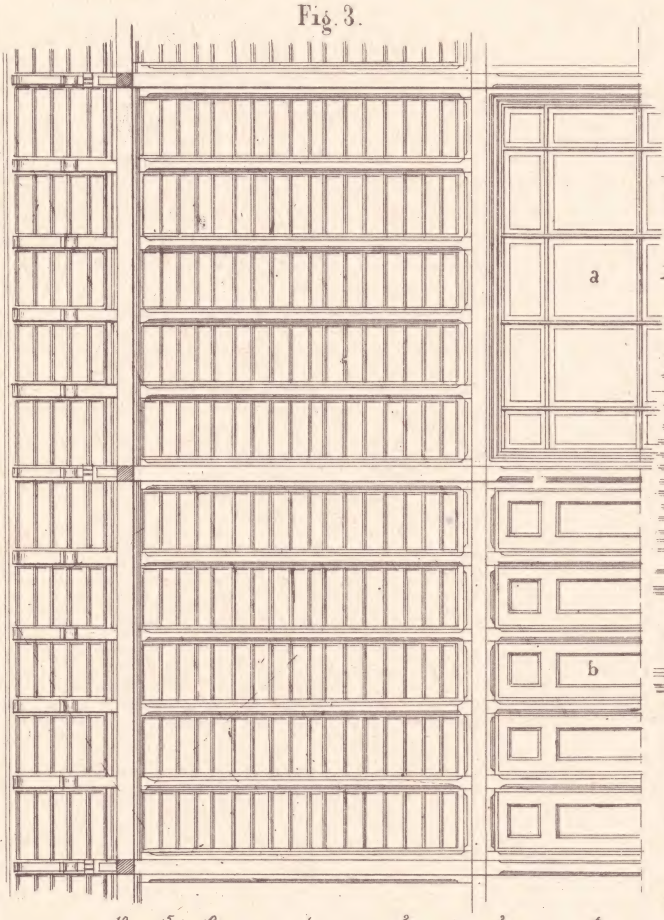

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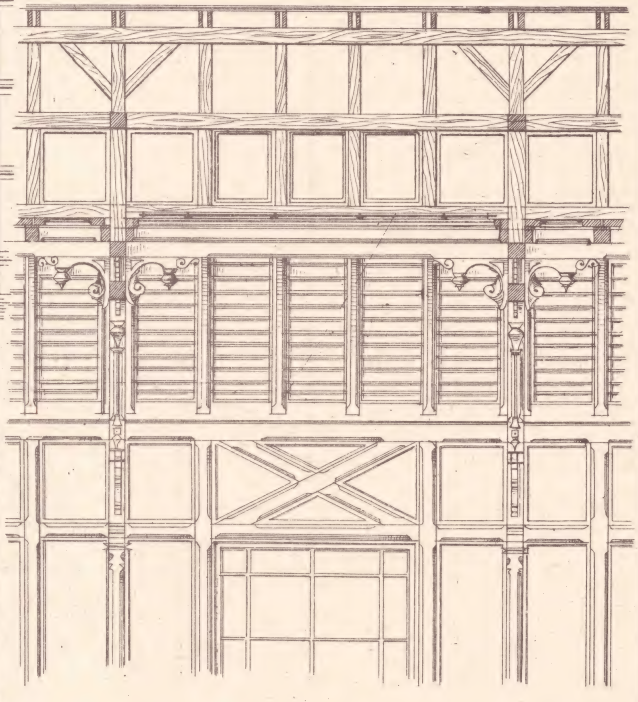

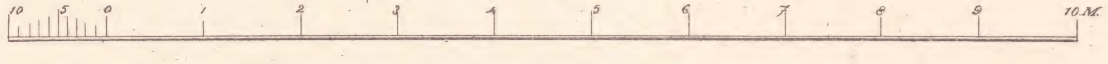

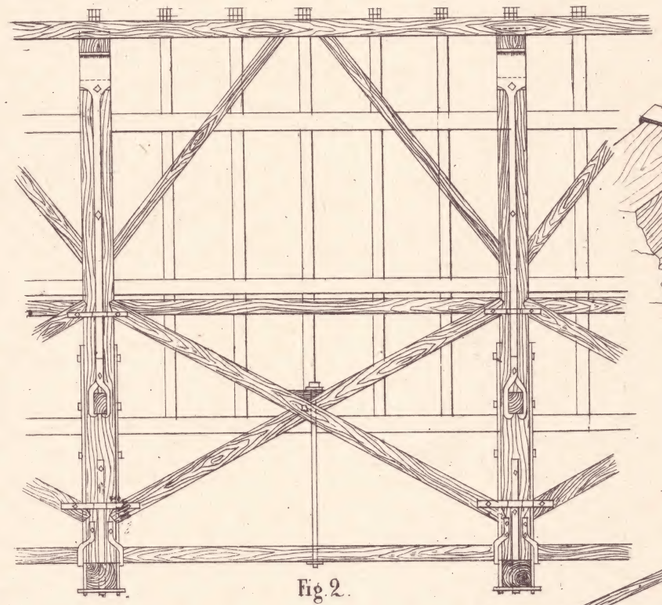

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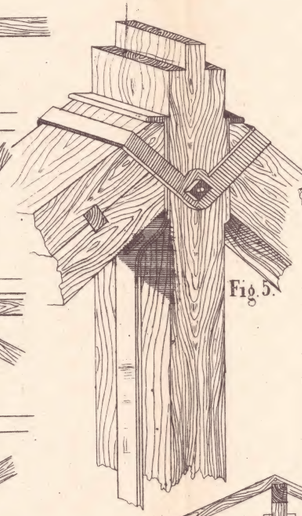

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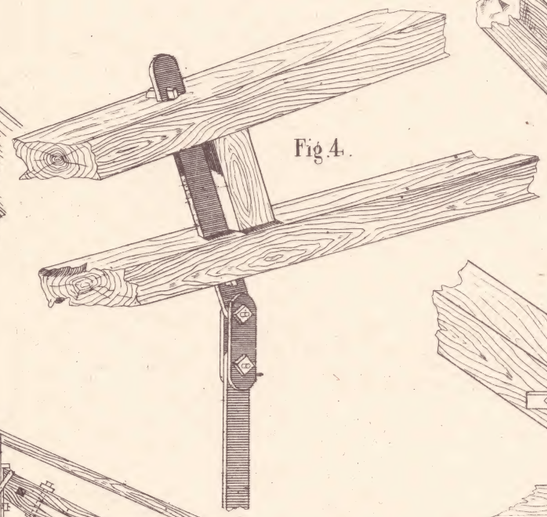

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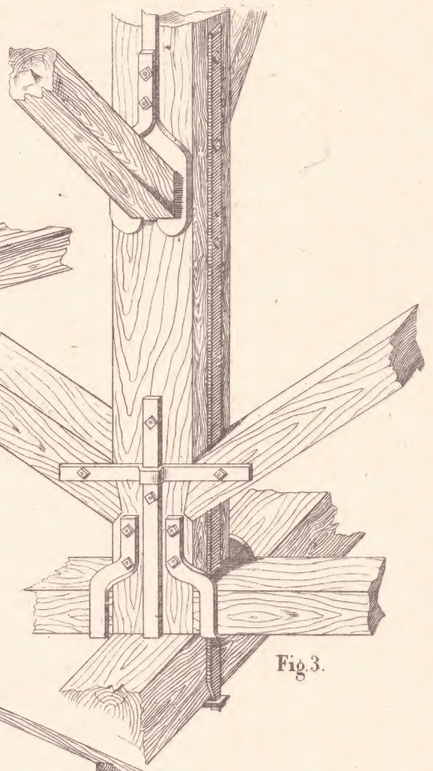

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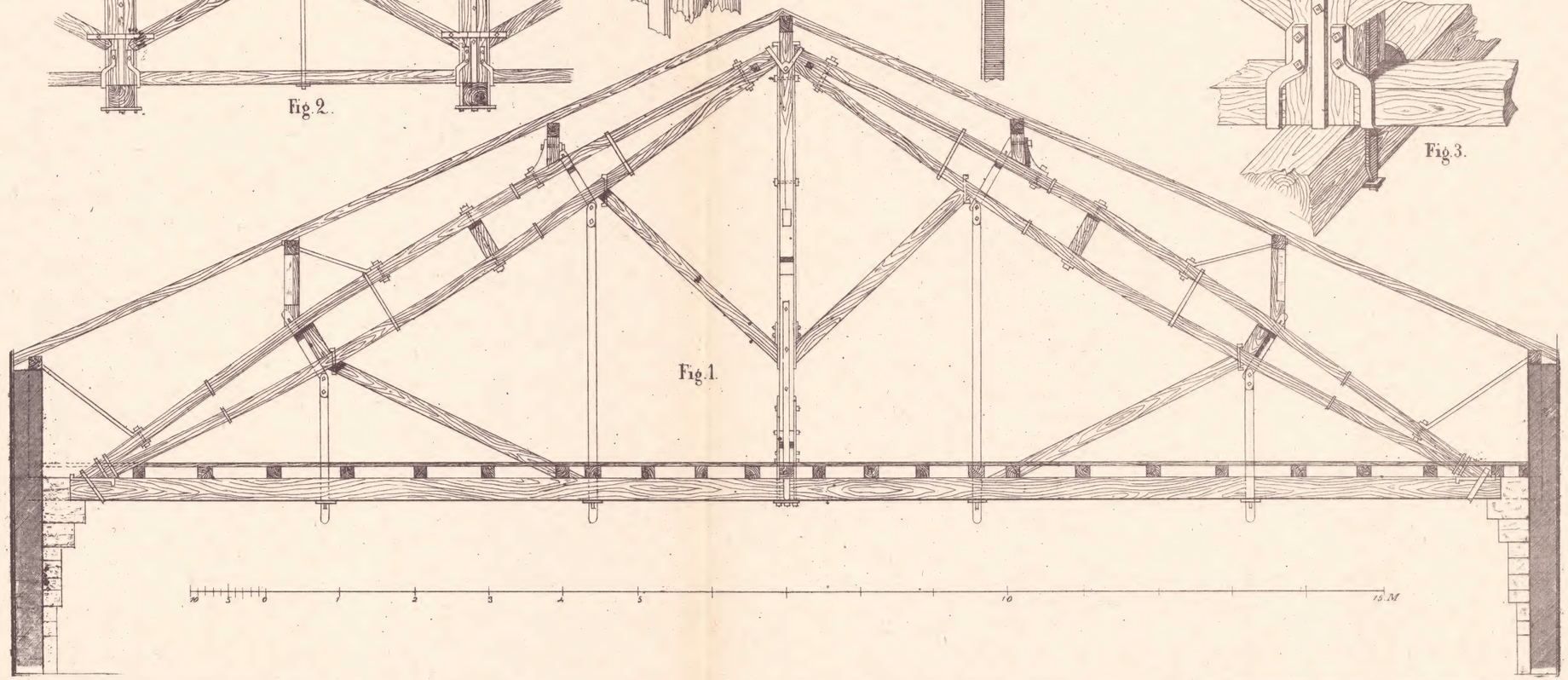

Fig. 1.

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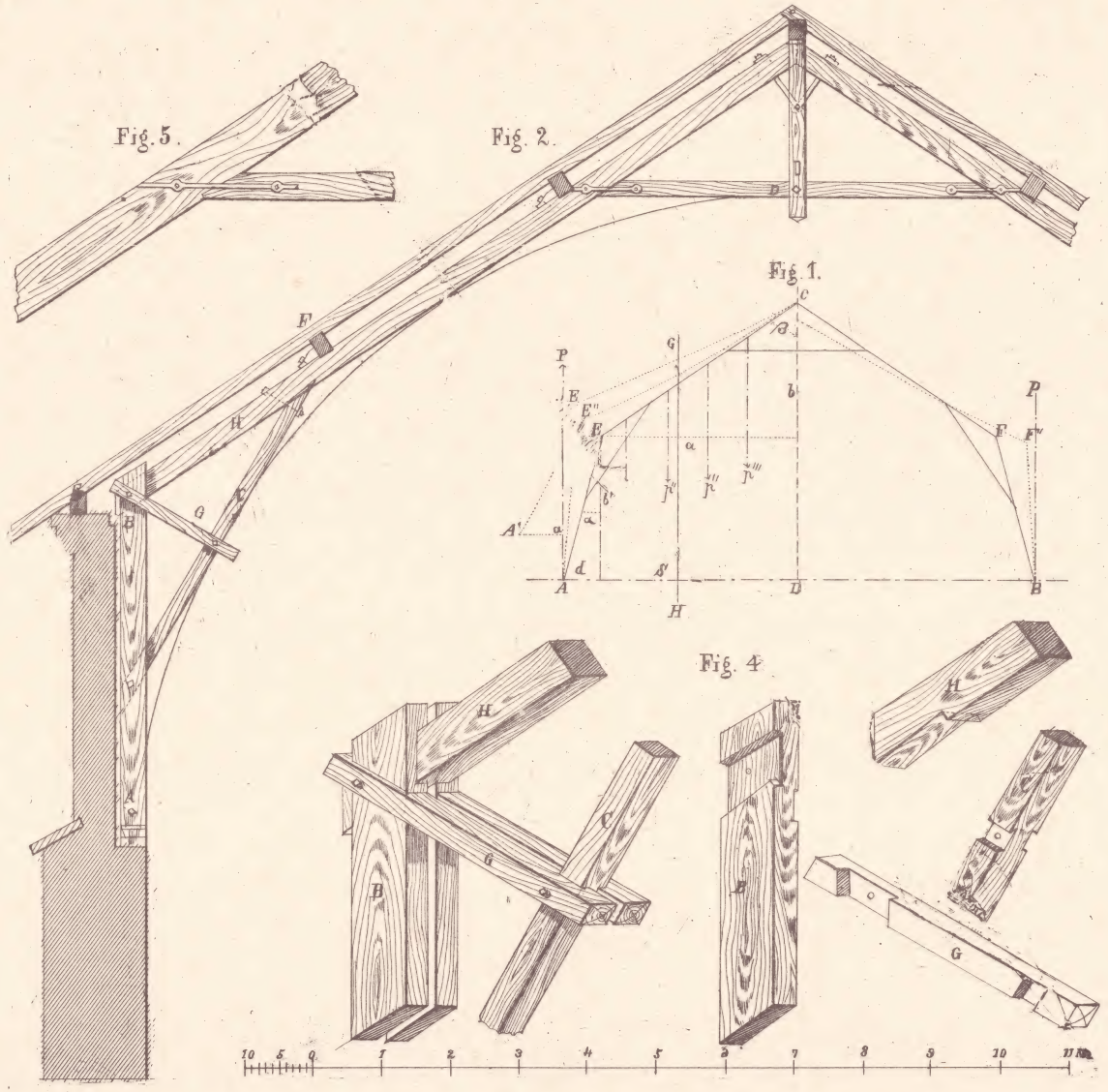

Fig. 2.

Fig. 1.

Fig. 4

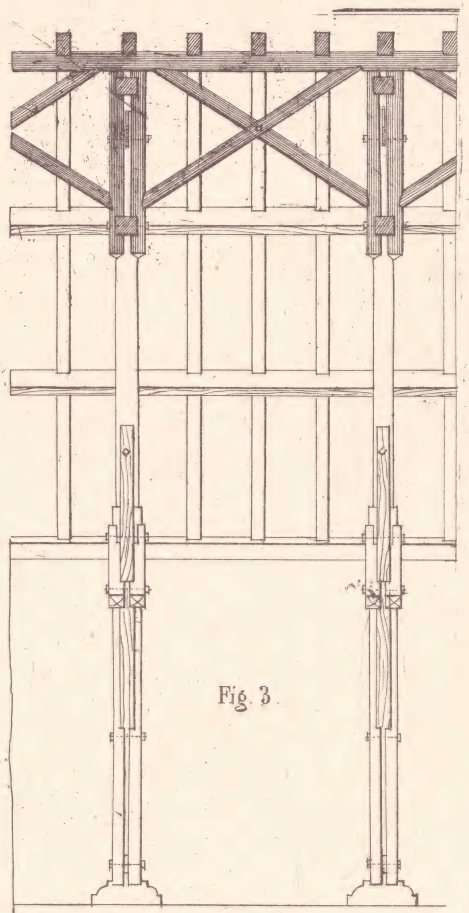

Fig. 3.

Bregmann II

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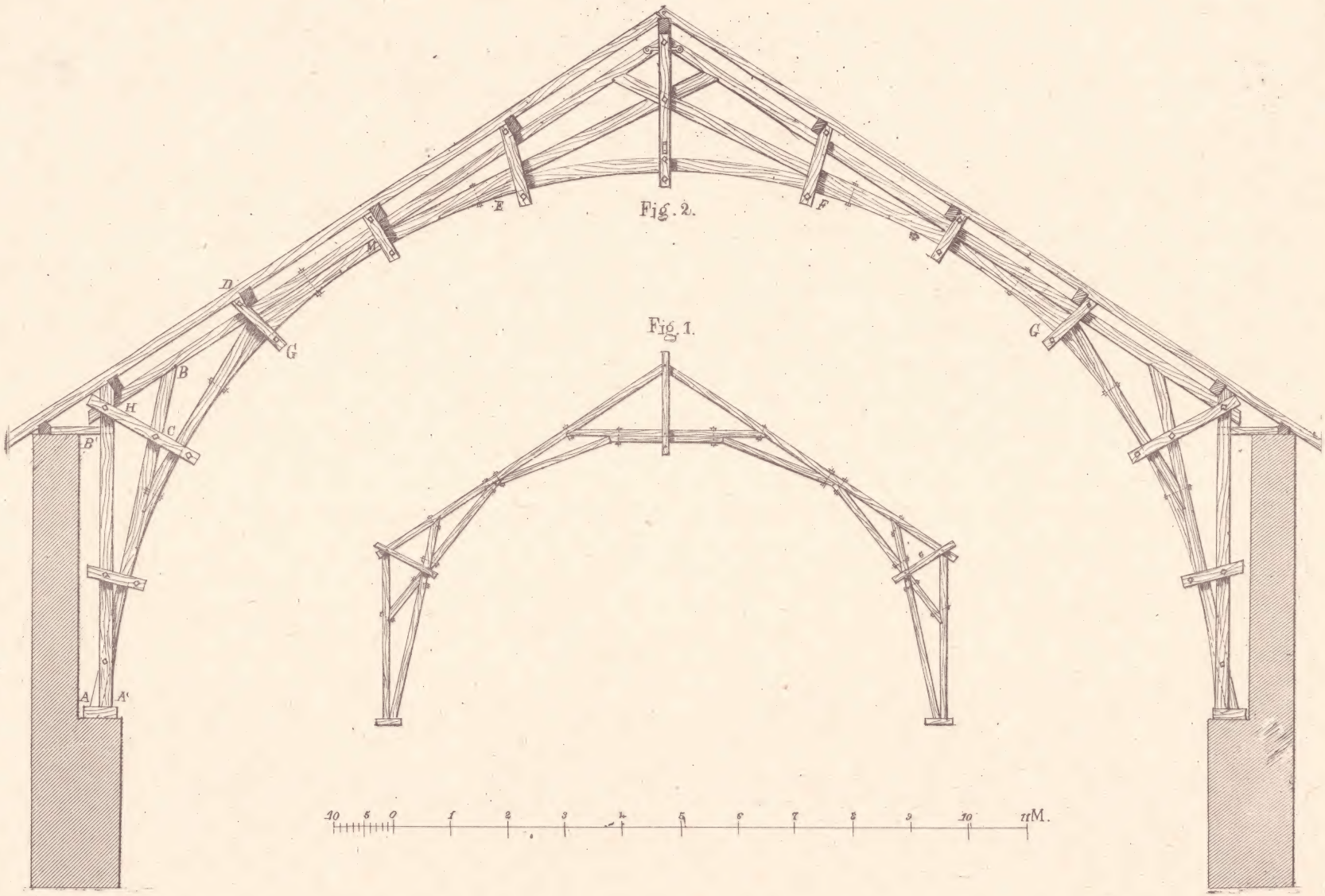

Bregnano II

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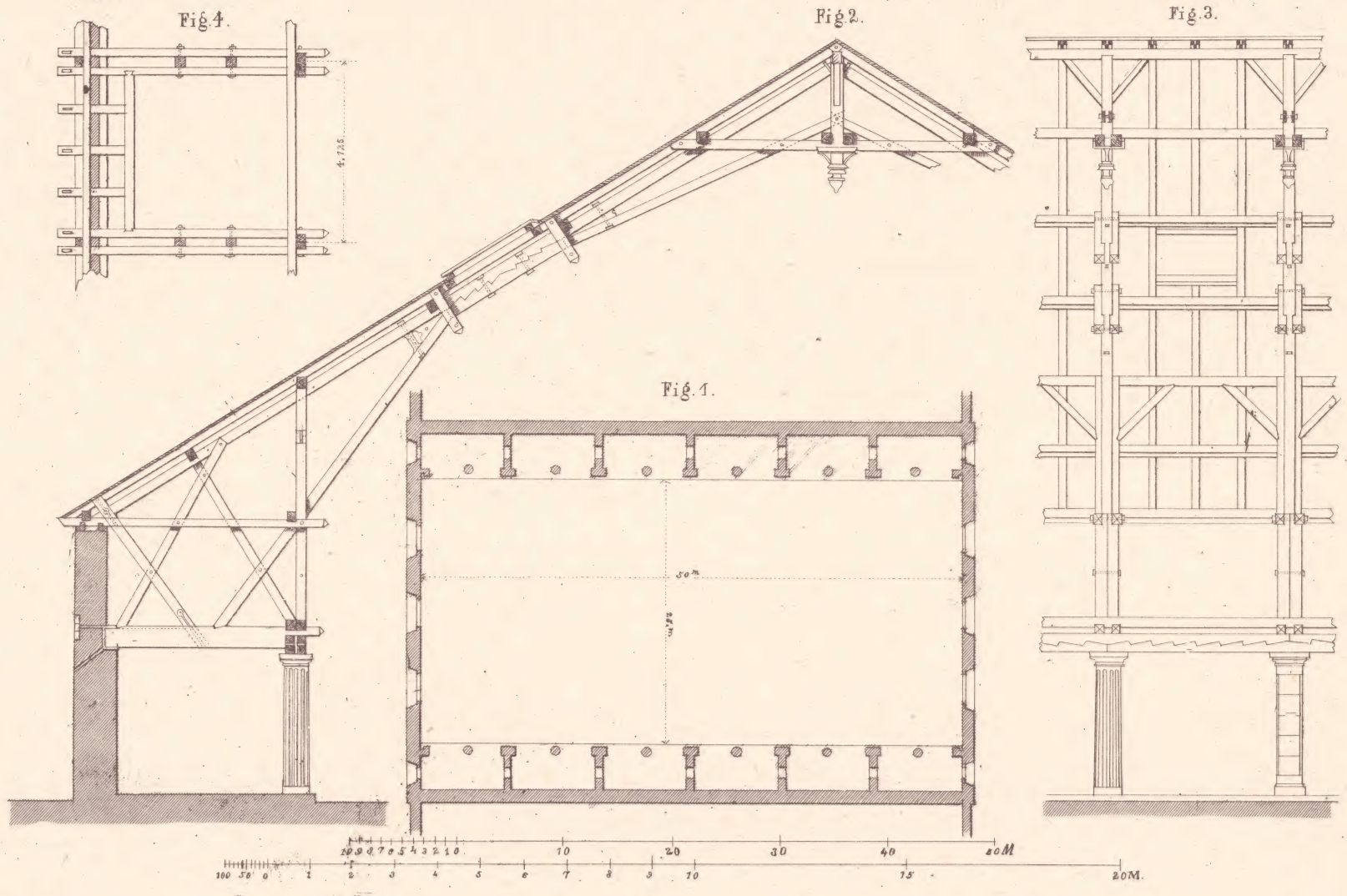
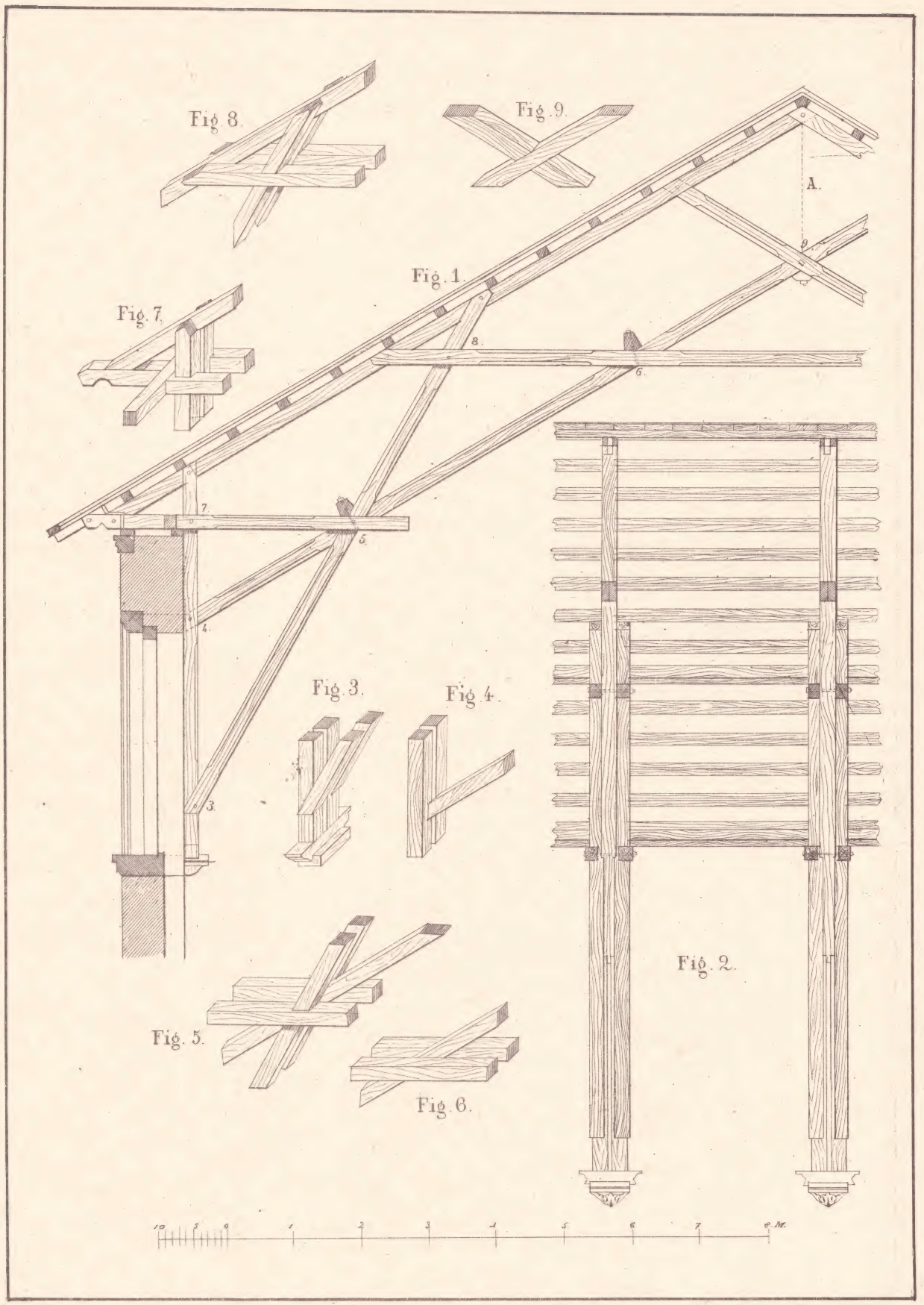


Casa Edit.e D.r Fran.co Vallardi



Breymann II

Casa Edit.ce Dr F.sco Vallardi

Fig.3.

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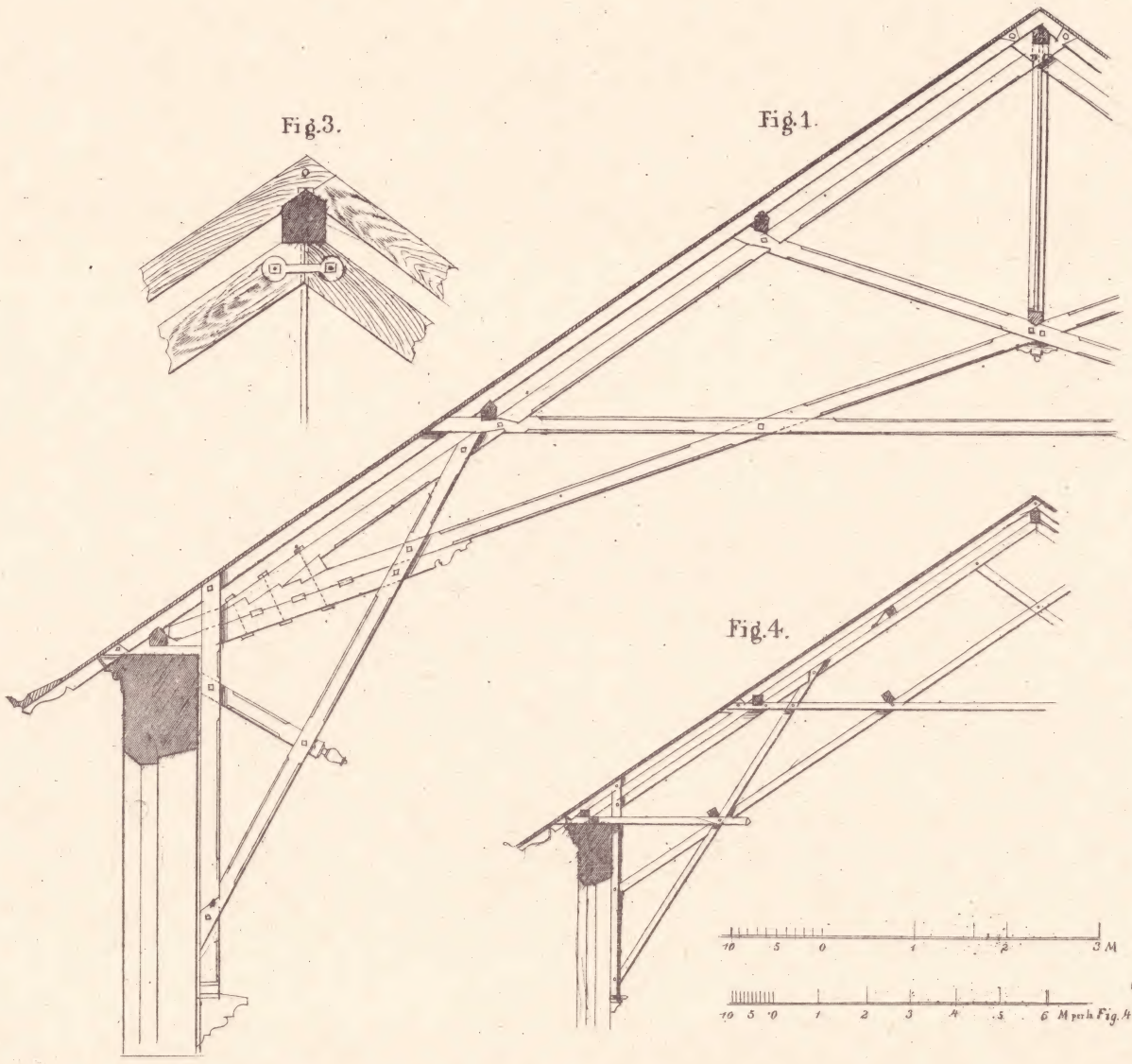

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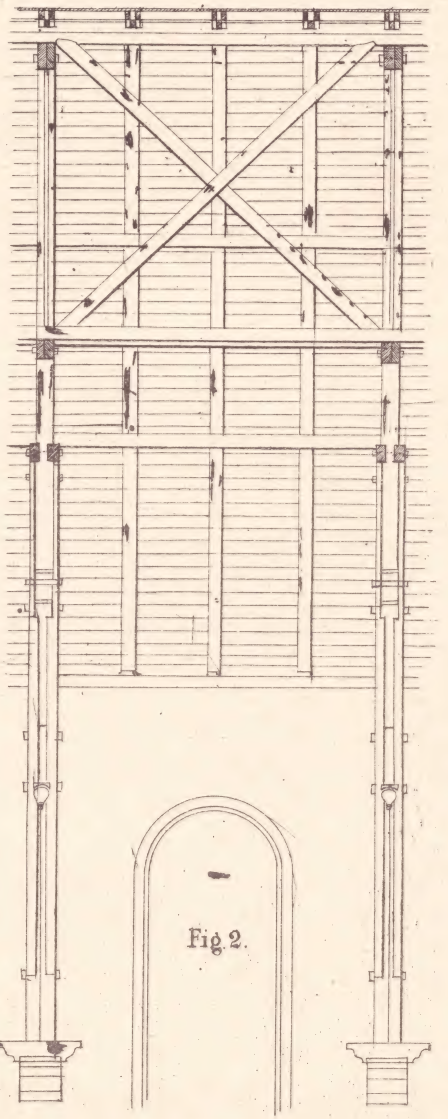


Fig.2.

Bregmann fil

Casa Edit.e D.r Vallardi

Palestra Centrale in Carlsruhe

Fig. 1.

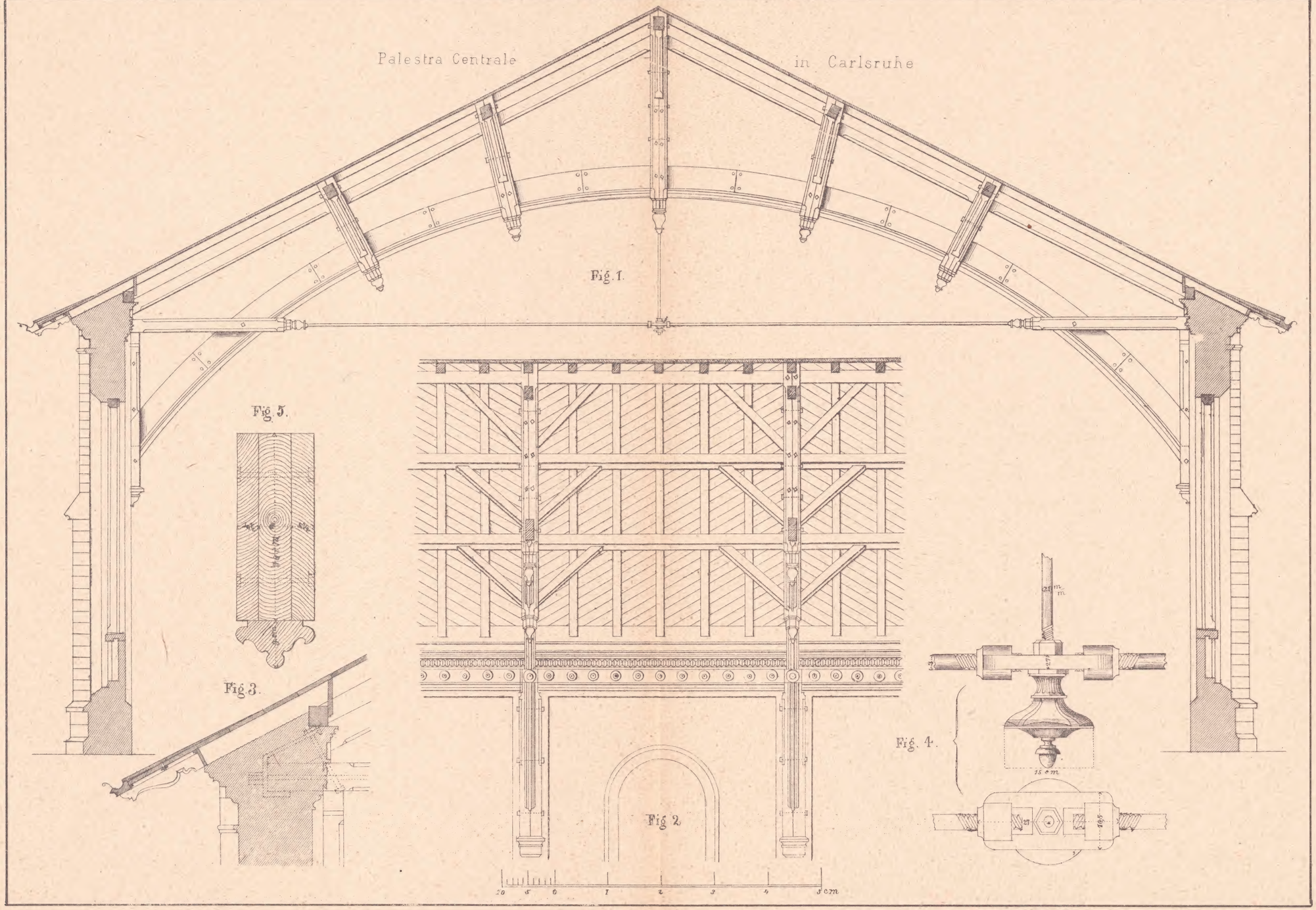


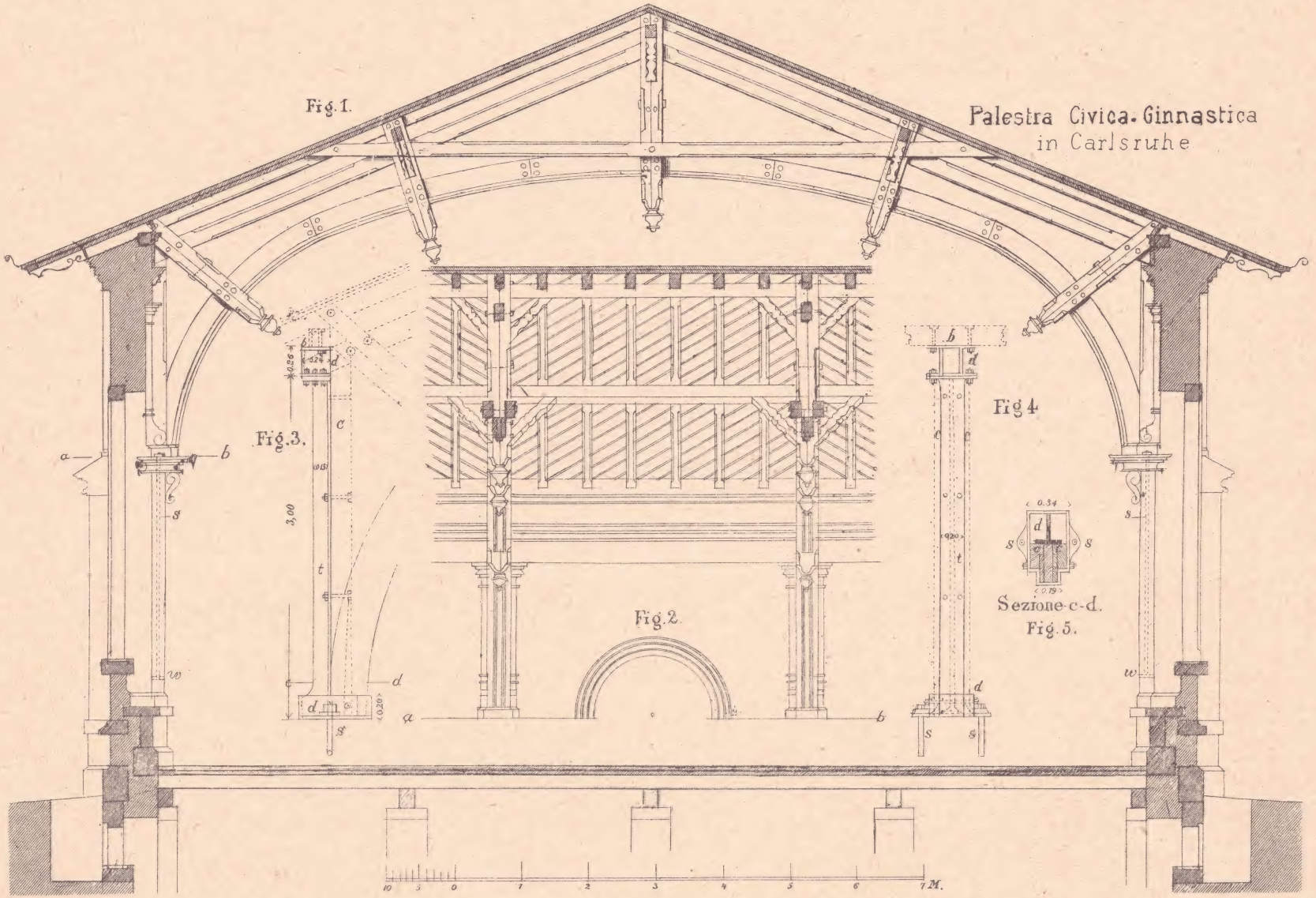
Fig. 5.

Fig. 3.

Fig. 2.

Fig. 4.

Palestra Civica-Ginnastica in Carlsruhe



Bergmann fl

Casa Edit.ce Dr.re Vallardi

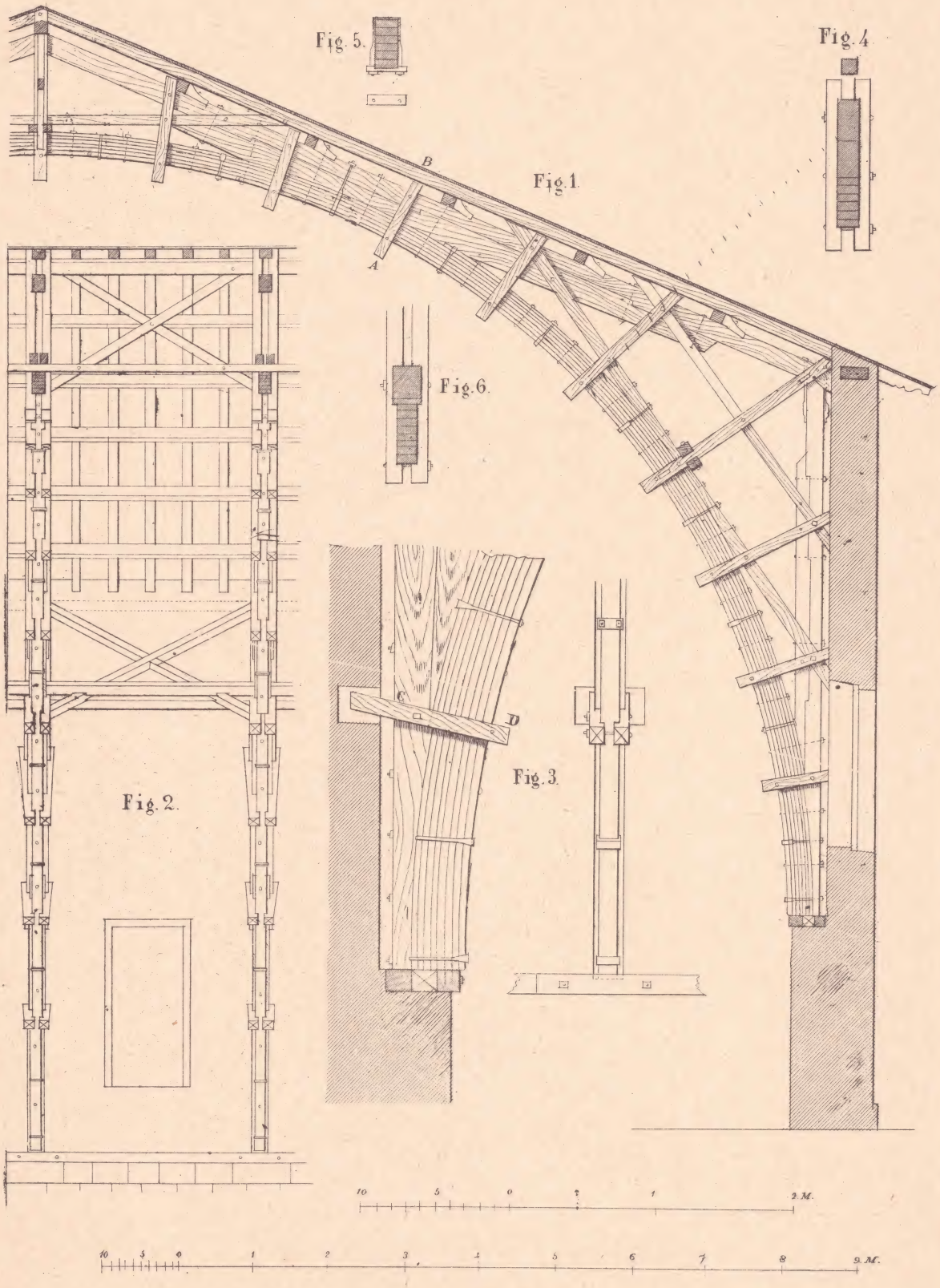


Fig. 5.
Fig. 4
B
Fig. 1
A
Fig. 6.
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D
Fig. 3.
Fig. 2.
10 5 0 1 2 M.
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Tav. 42.

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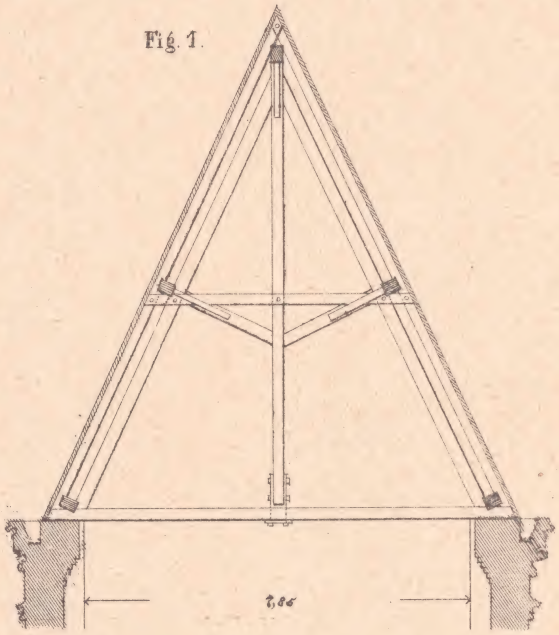

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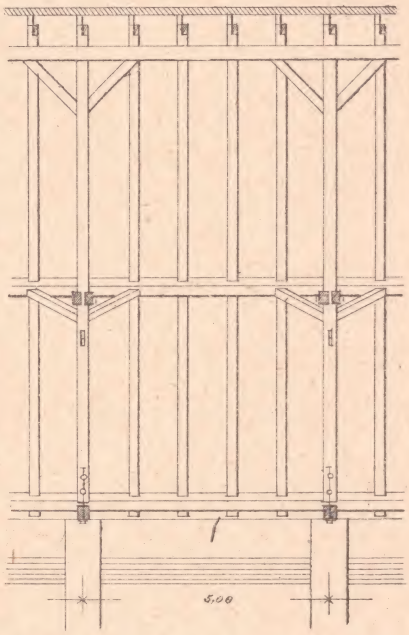

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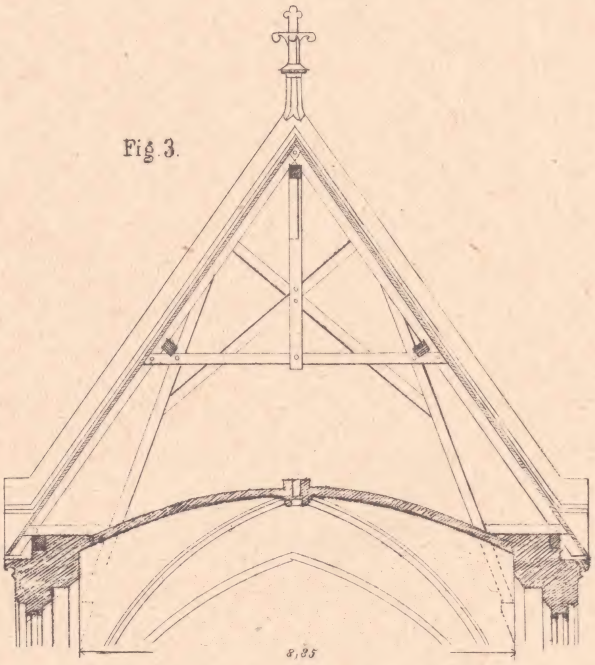

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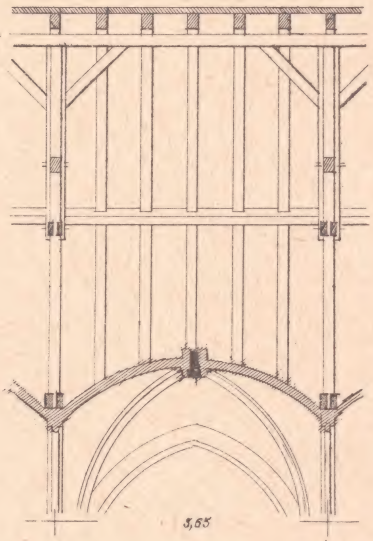

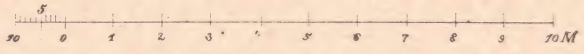

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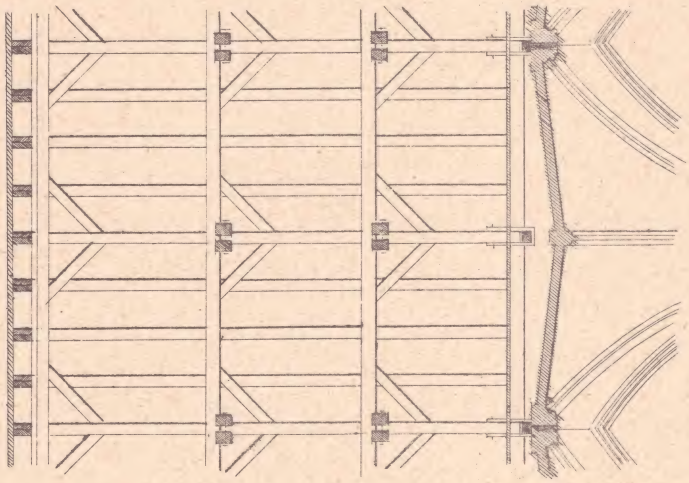

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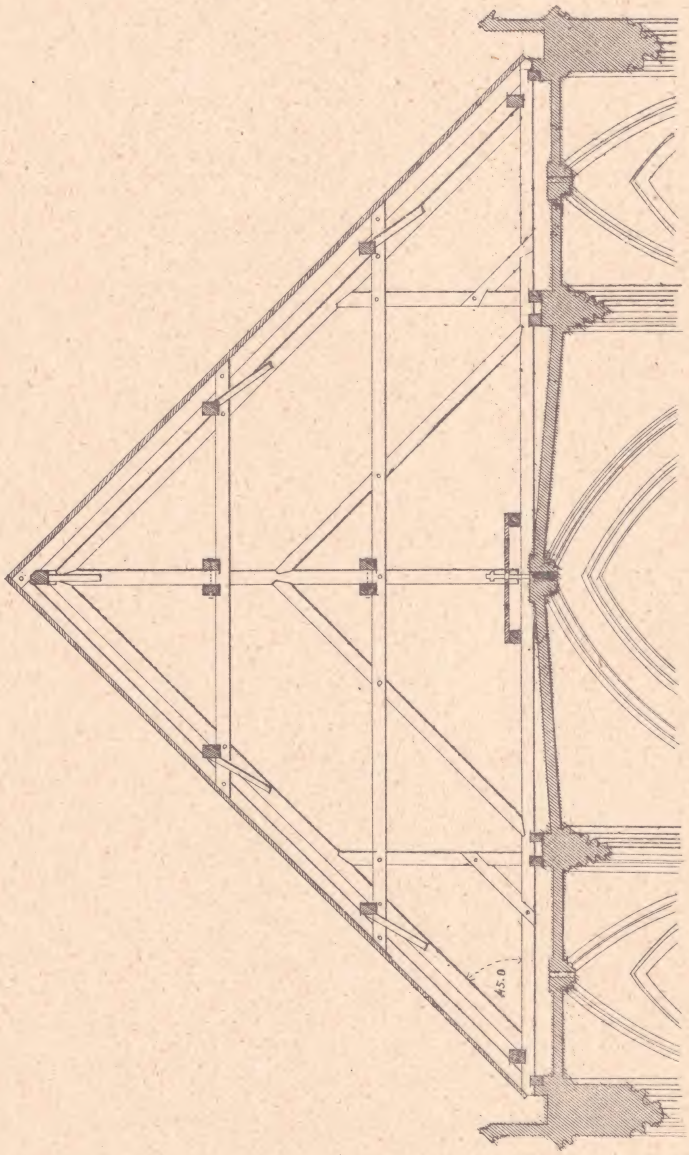

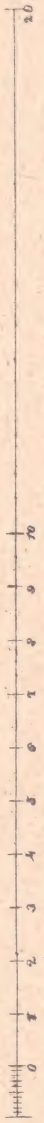

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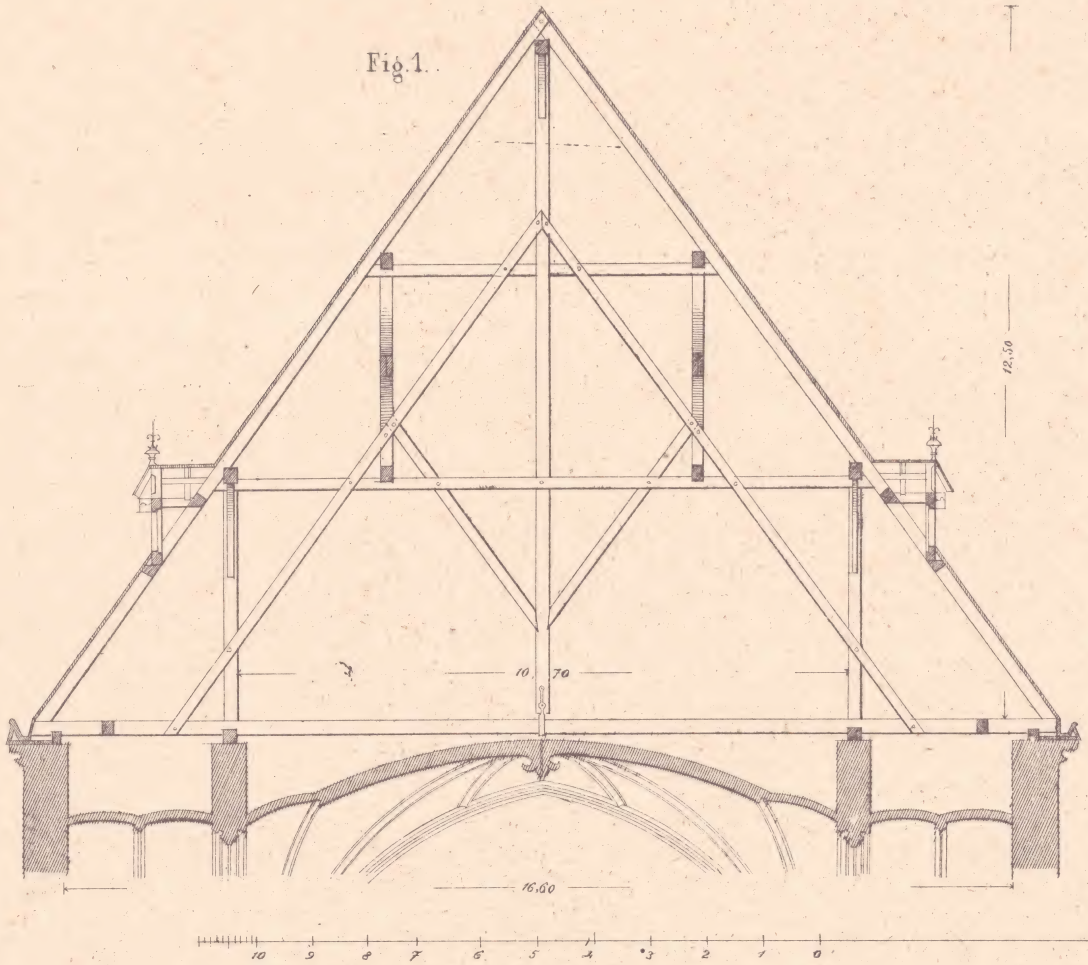

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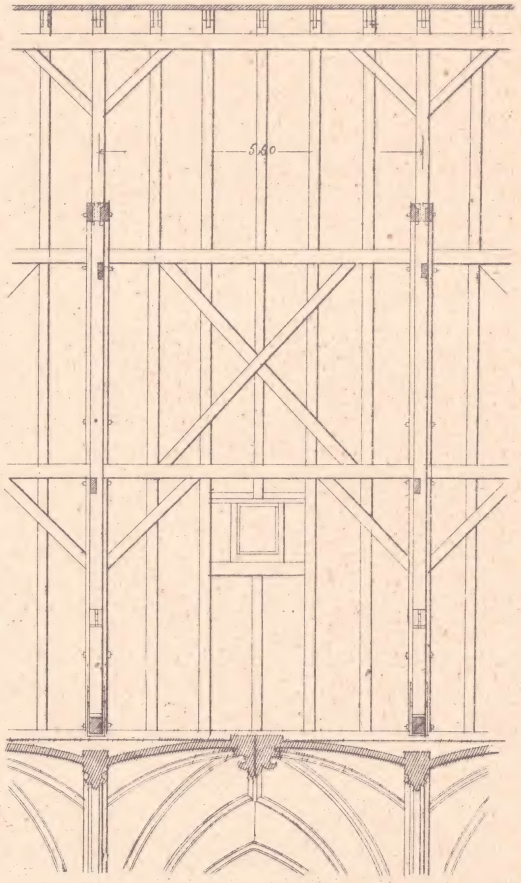

Pregliasco II

Casa Edit.e D.r Vallardi

Fig. 4.

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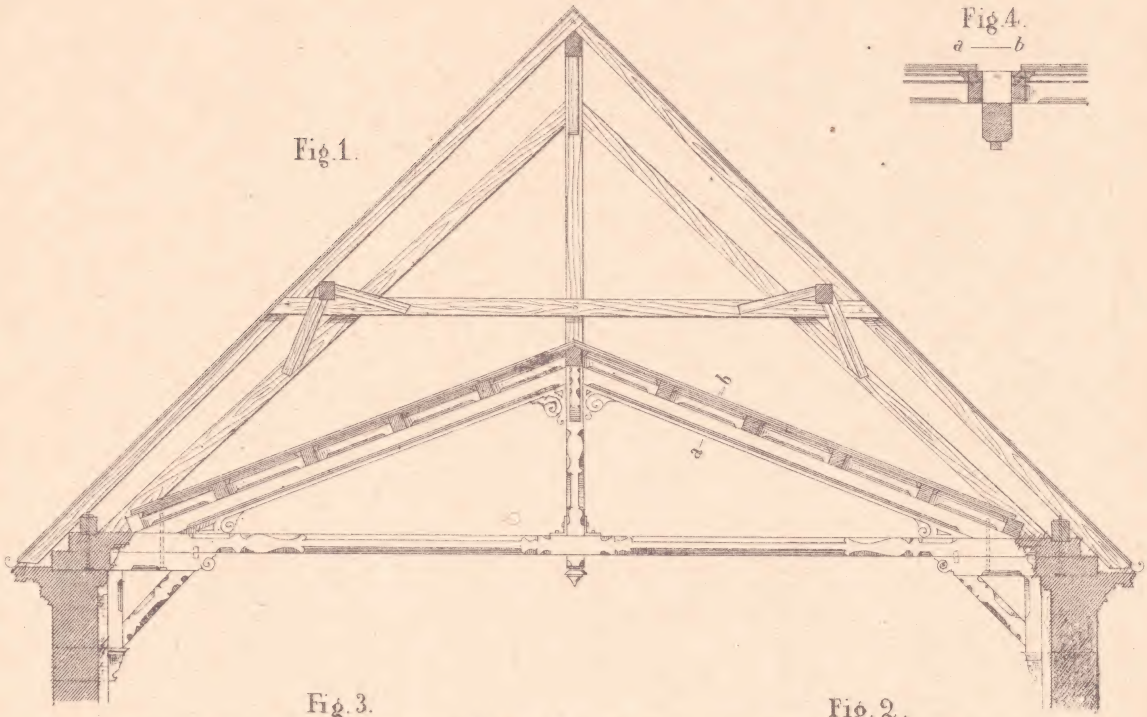

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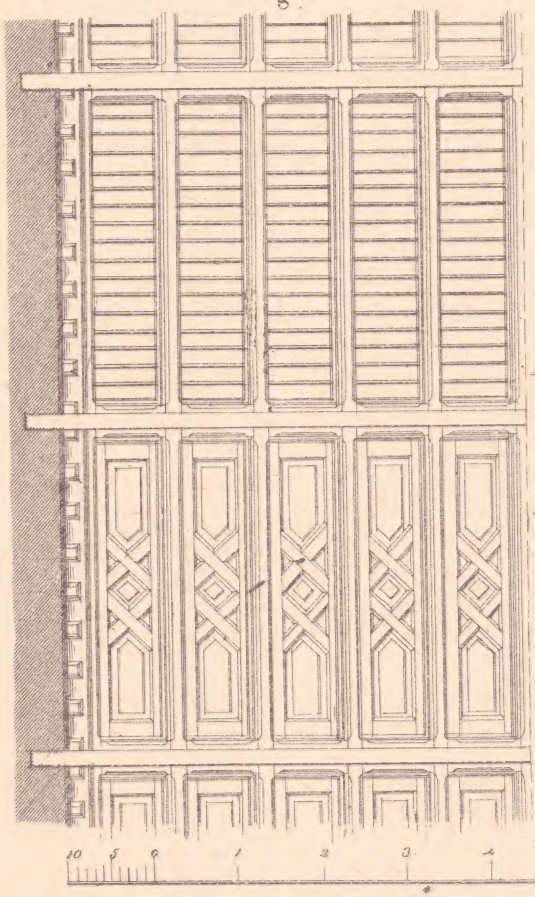

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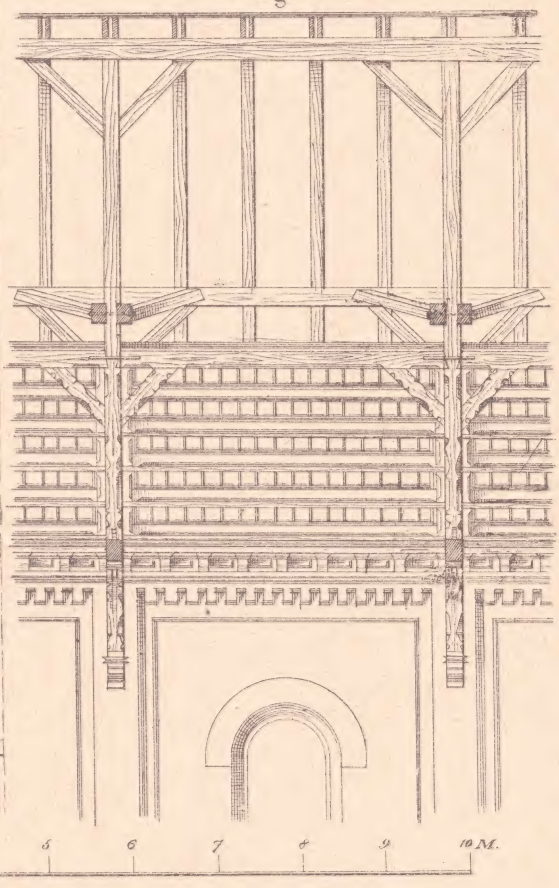

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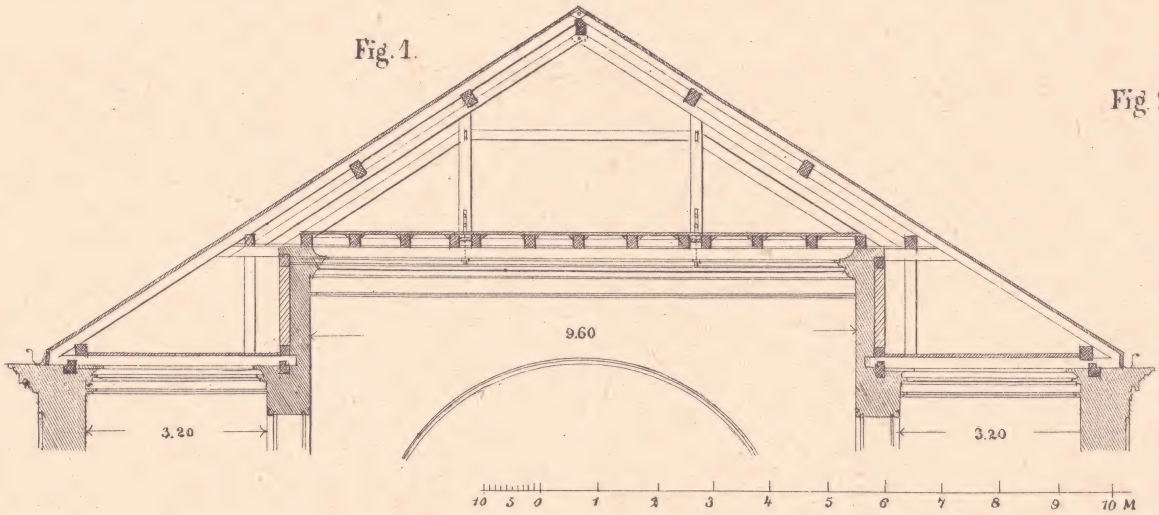

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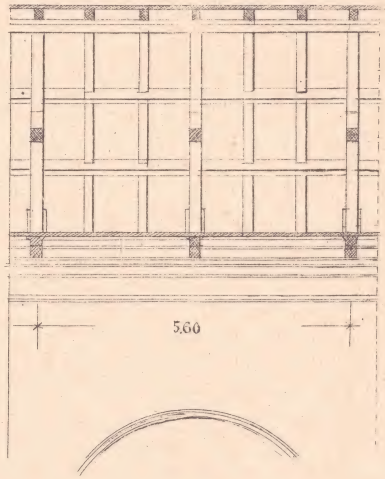


Fig. 3.

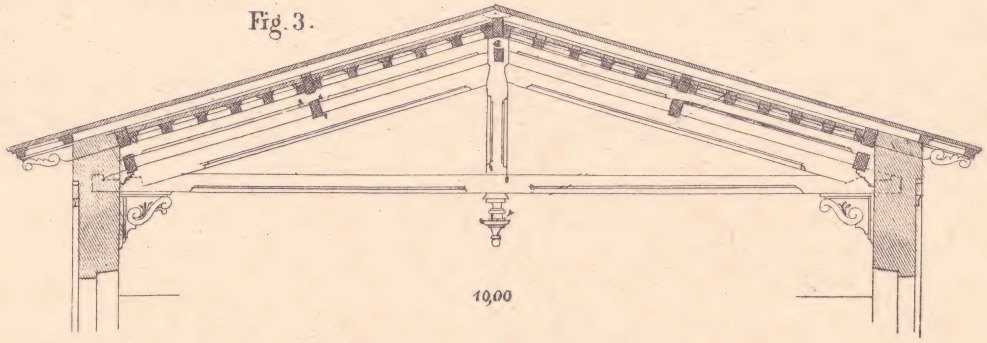
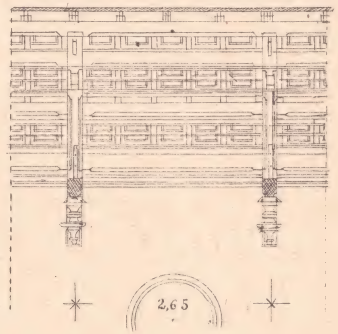


Fig. 4.



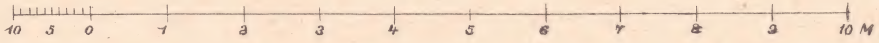


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Fig. 1.

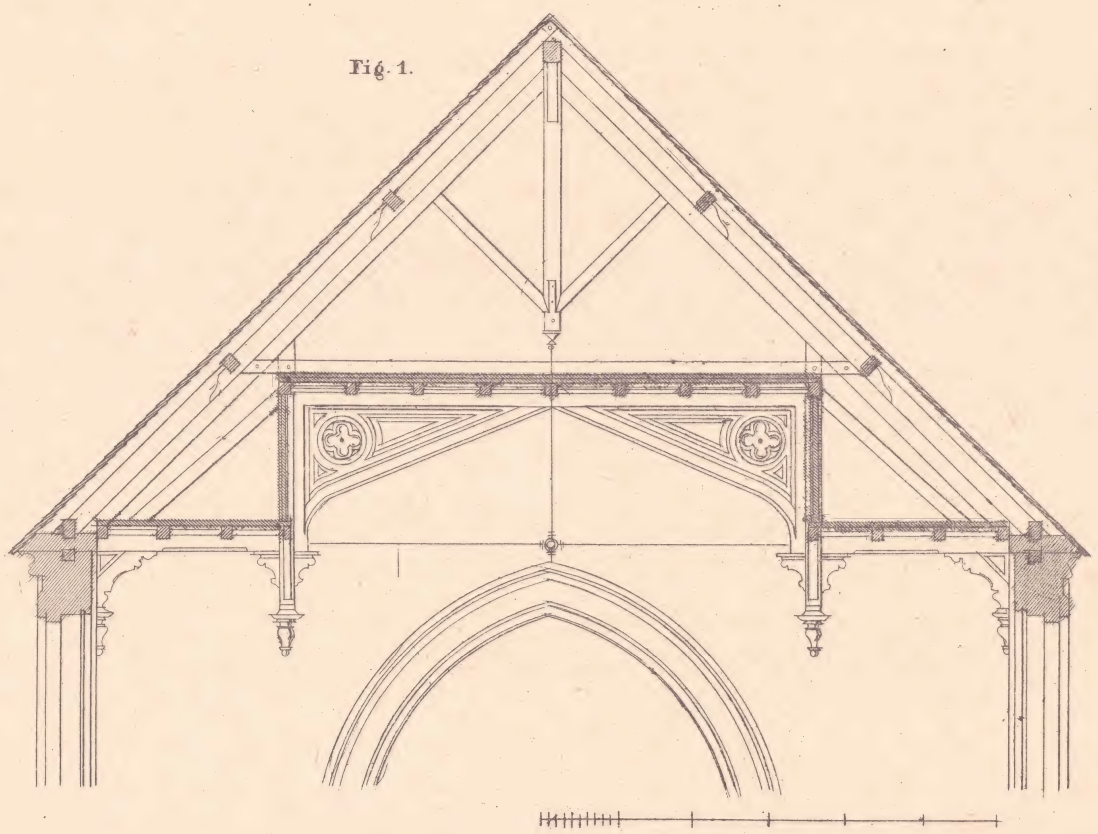
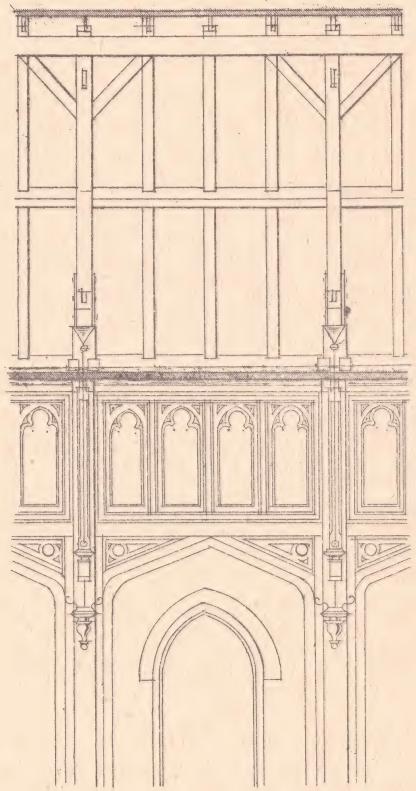


Fig. 2.



Tav. 47.

Bregnano II

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Fig.1.

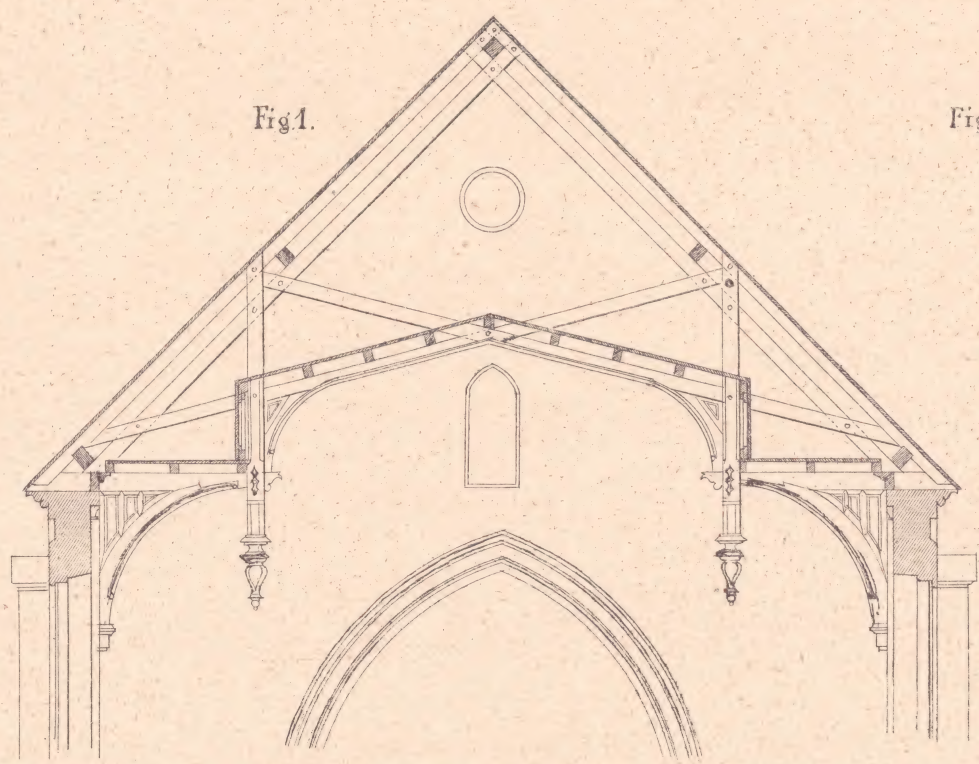
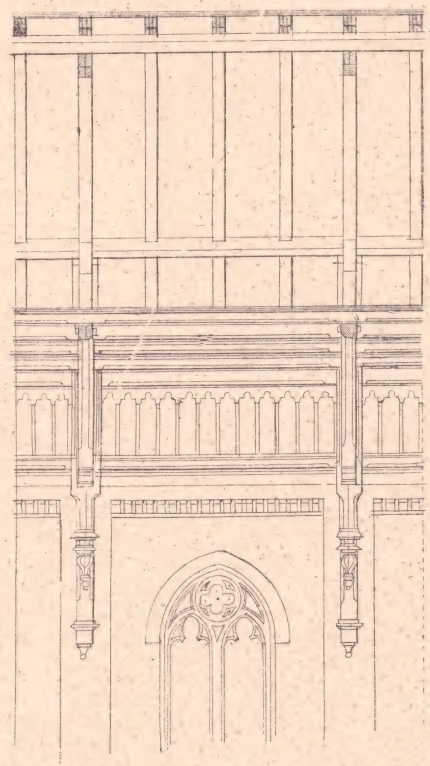
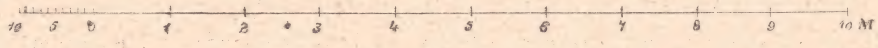


Fig.2.

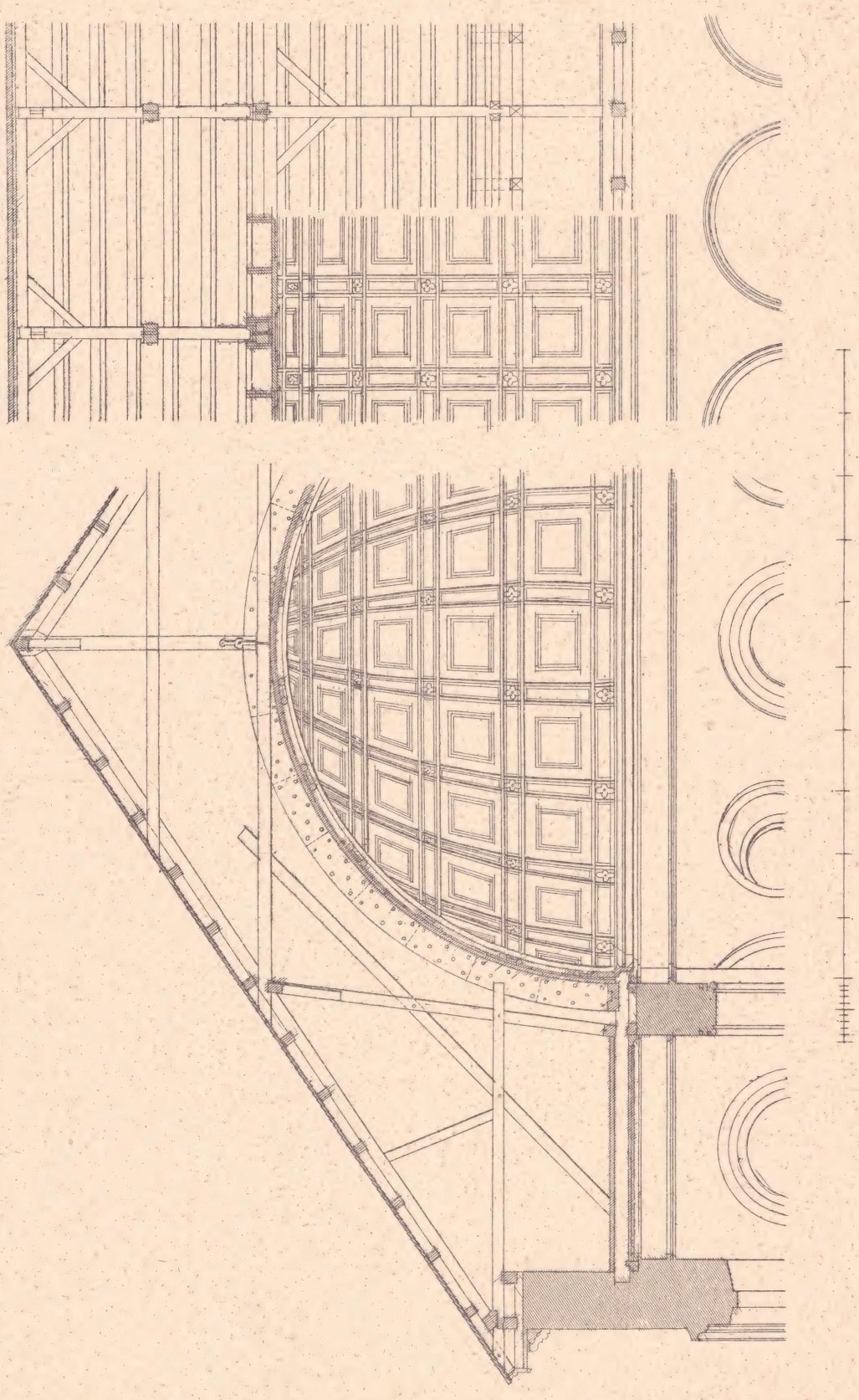




Bregmann II

Casa Edit.ce D.r Fco Vallardi

Tav. 49.



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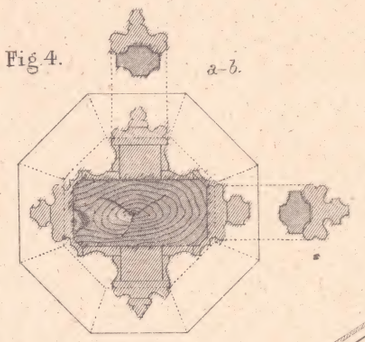
Casa Edit.ce D.r F.sco Vallardi

Fig. 4.



Pei particolari

10 5 0 1M.

Fig. 1.

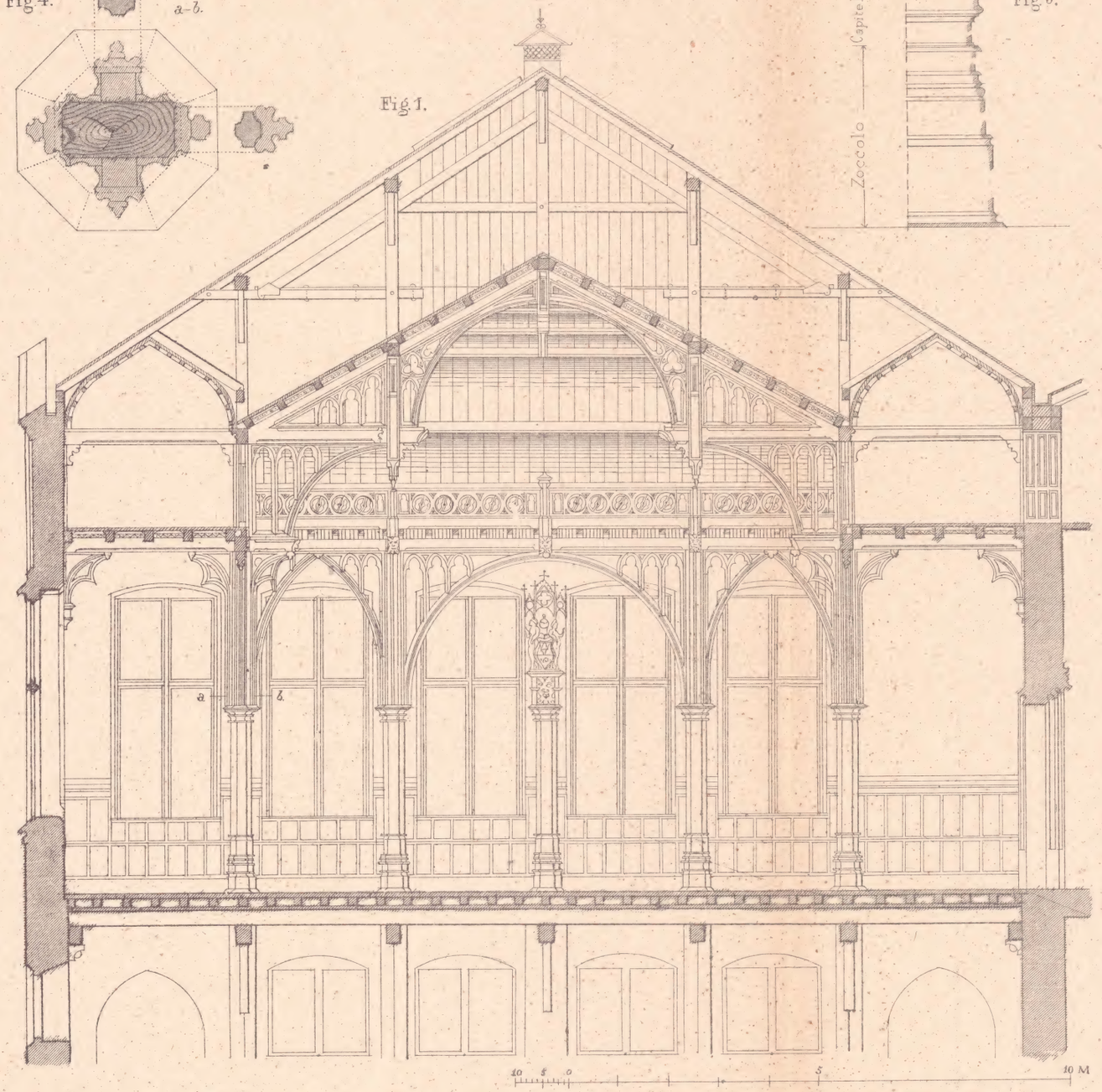


Fig. 3.

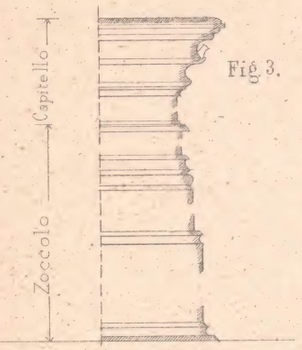
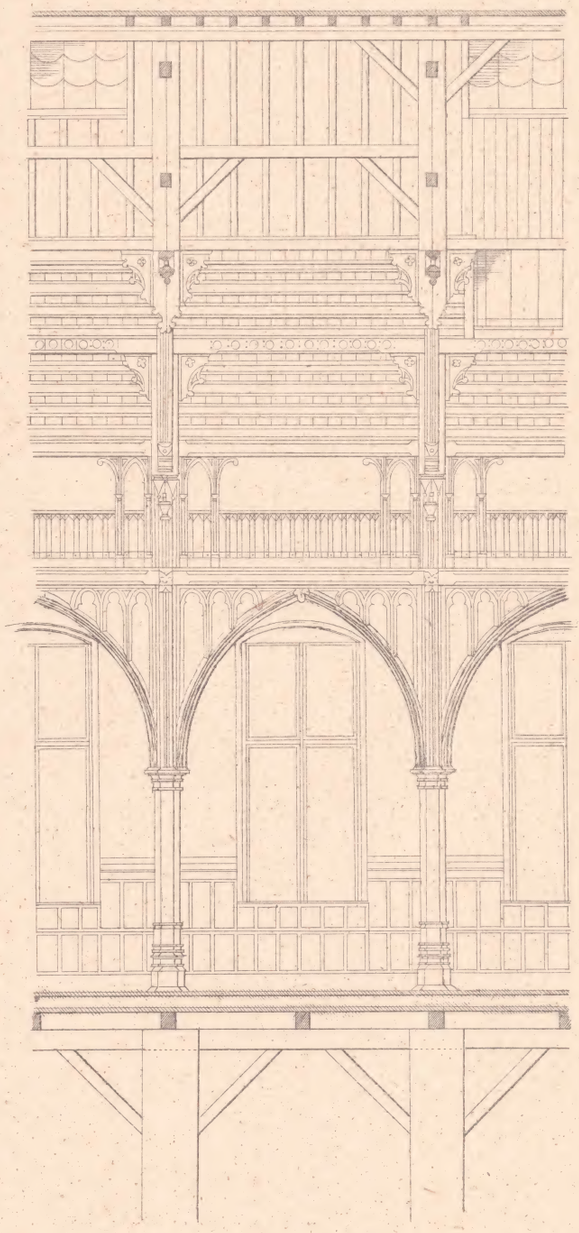


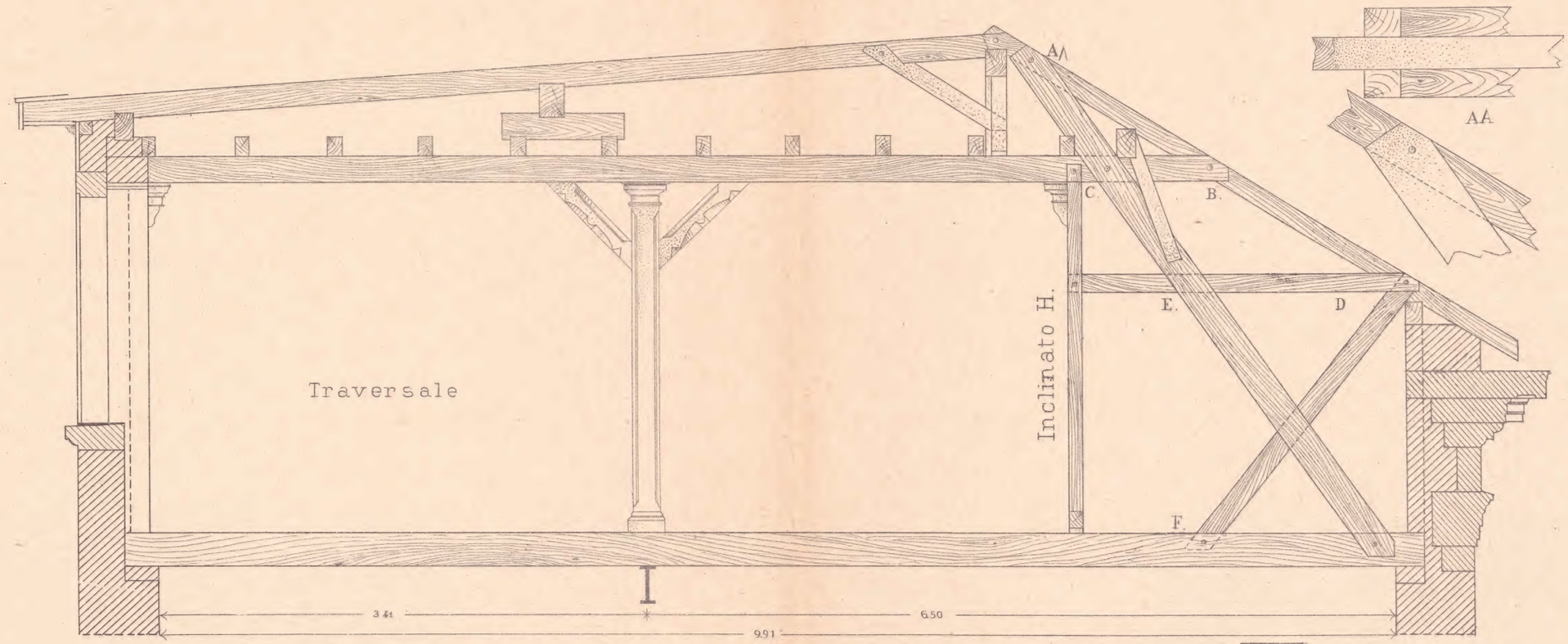
Fig. 2.

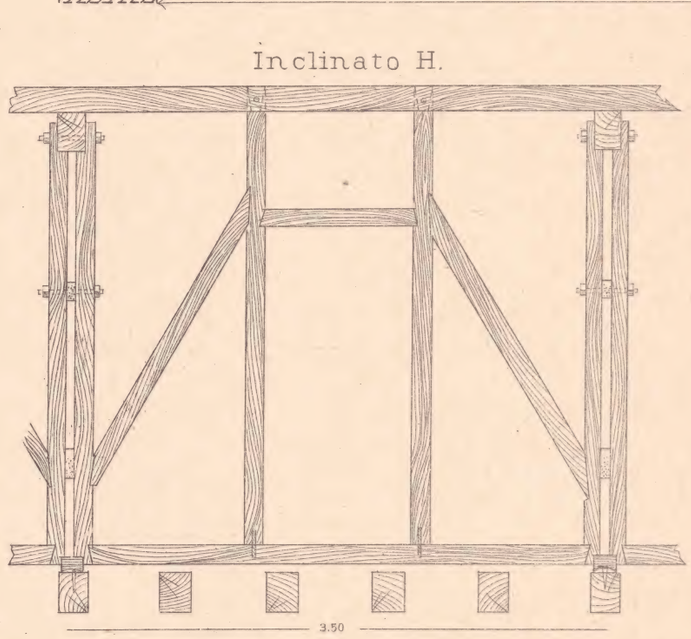


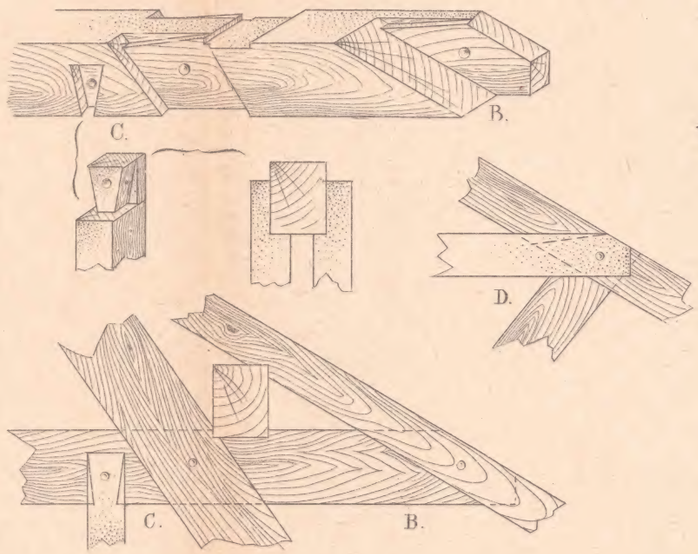
Il Gurzenich (Borsa) in Colonia

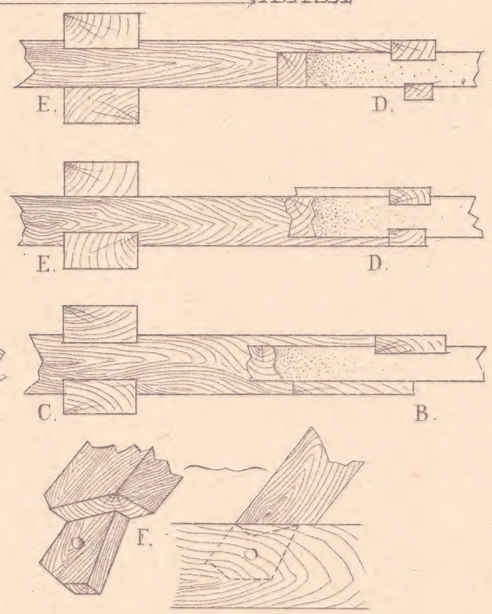
Sezione trasversale del Salone

Sezione longitudinale


A
A.
C.
B.
E.
D
Traversale
Inclinato H.
F.
3.41
6.50
9.91


Inclinato H.
3.50


C.
B.
D.
C.
B.


E.
D.
E.
D.
C.
B.
F.

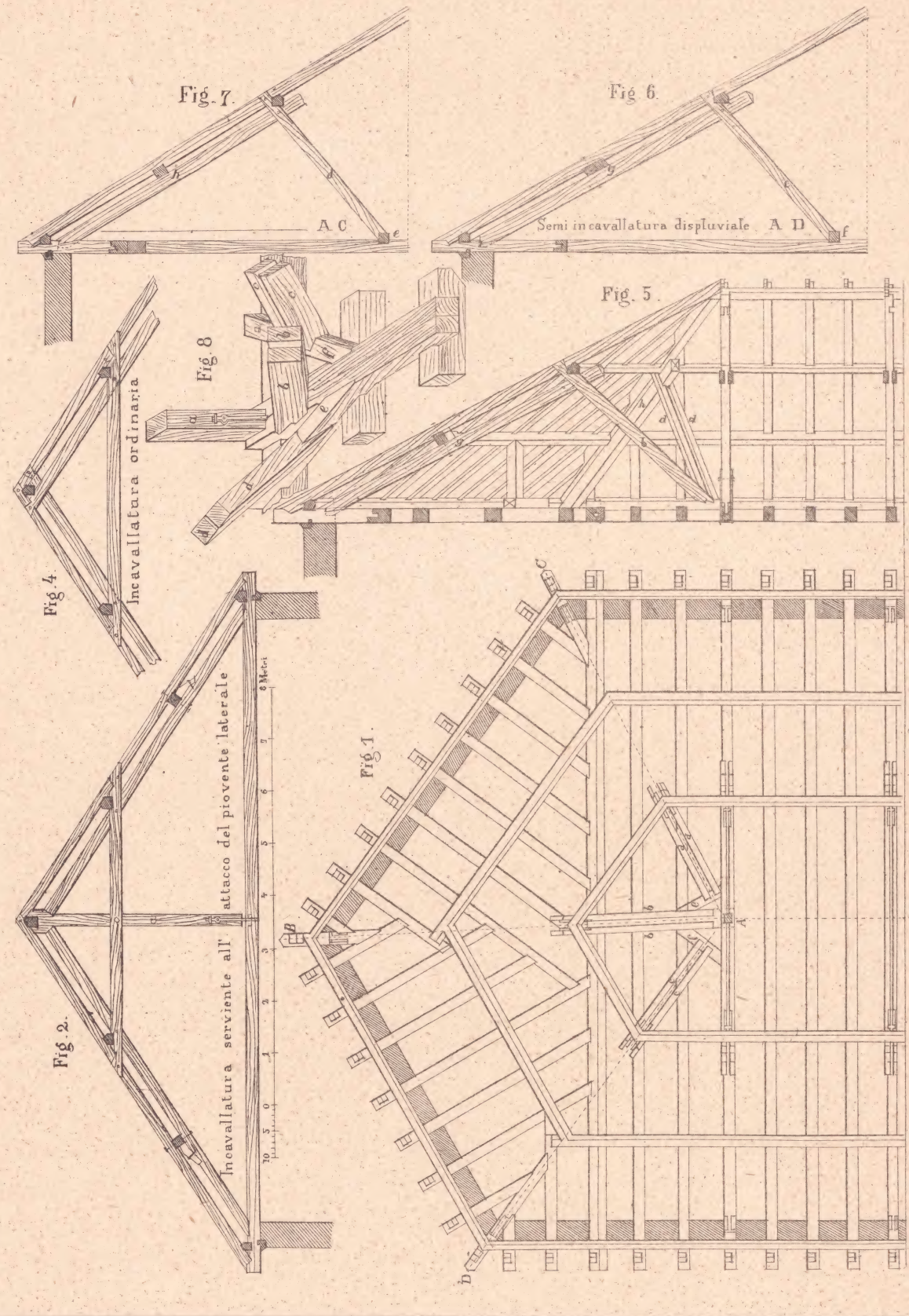
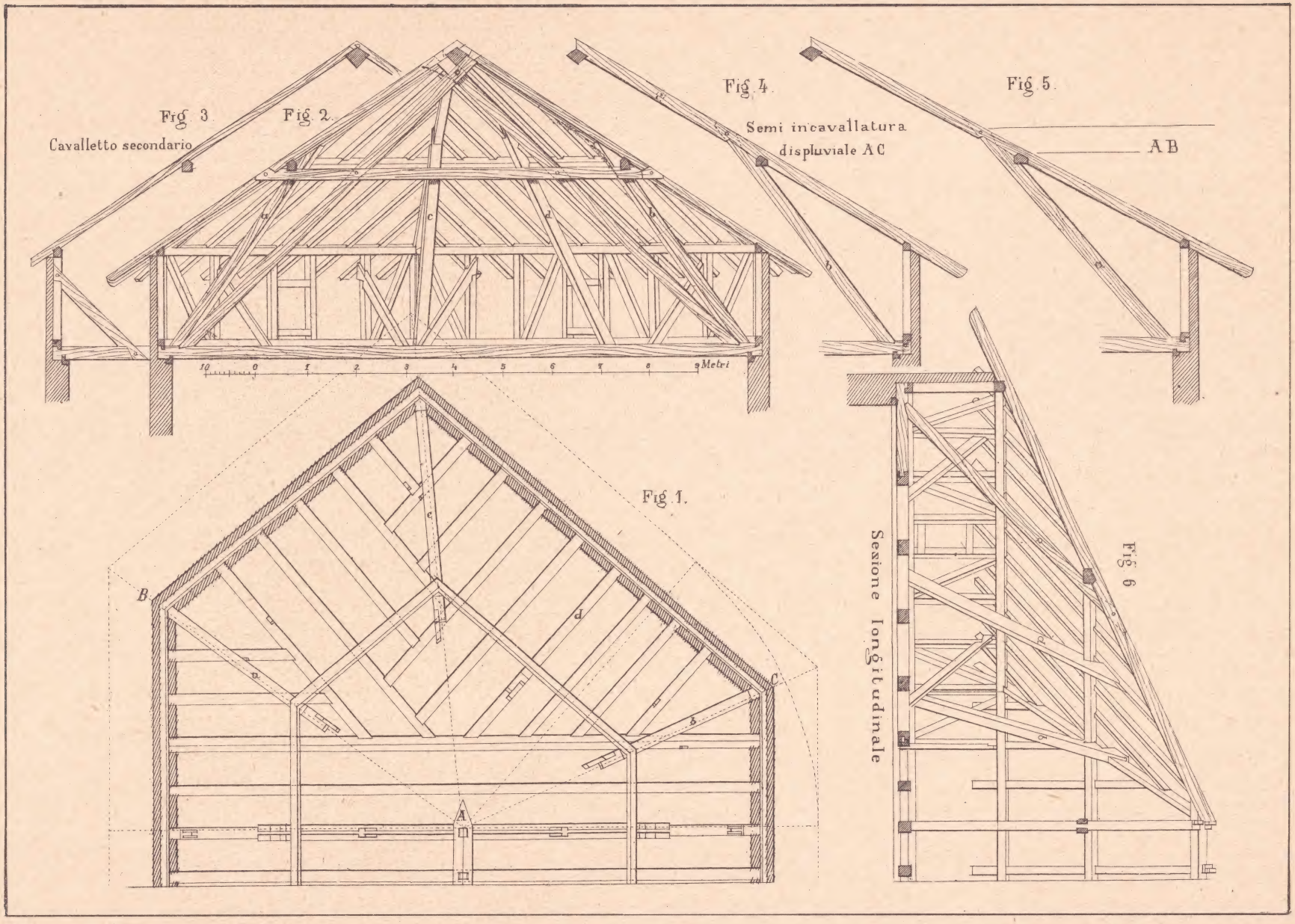


Fig. 7.
A C
Fig. 6.
Semi incavallatura displuviale A D
Fig. 5.
Fig. 8
Fig. 4
Incavallatura ordinaria
Fig. 2.
Incavallatura serviente all' attacco del piovente laterale
Fig. 1.



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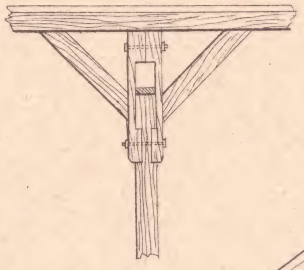
Particolare in A Fig 3 e 4



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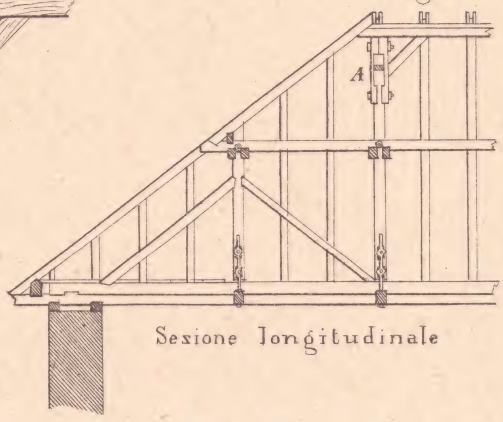
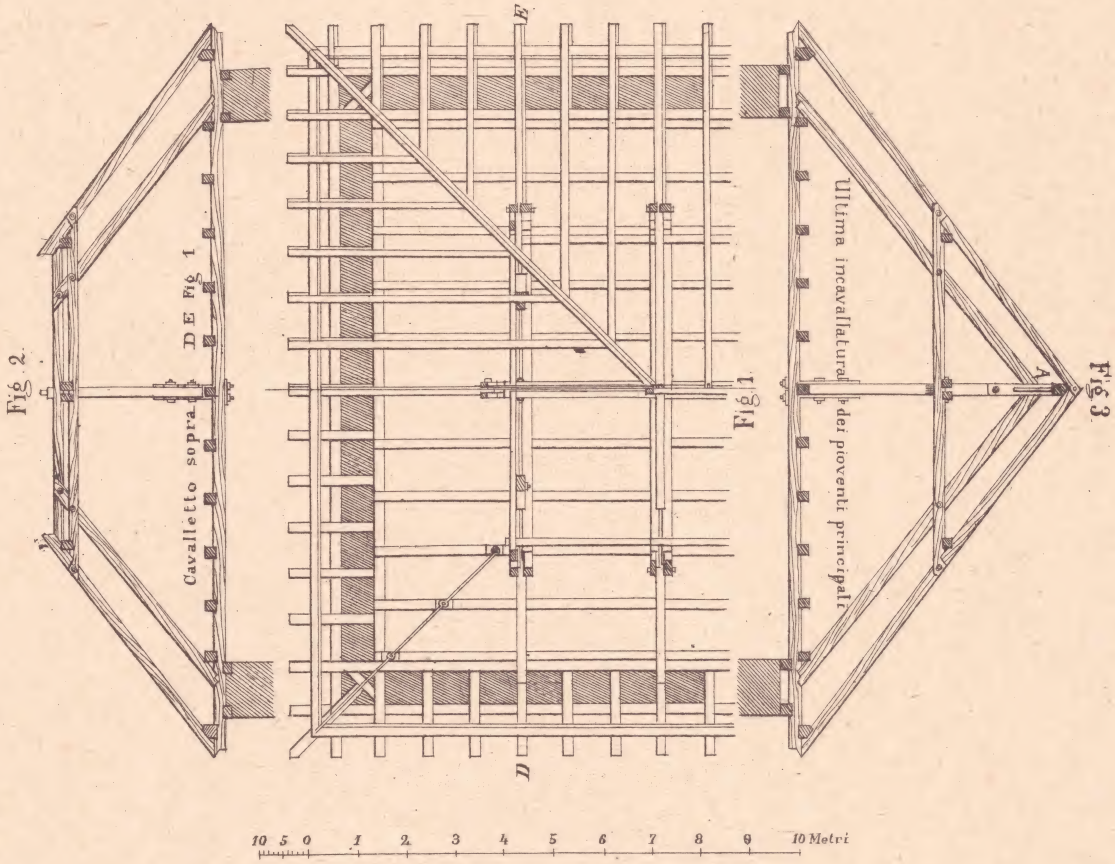


Sezione longitudinale



Tav. 55.

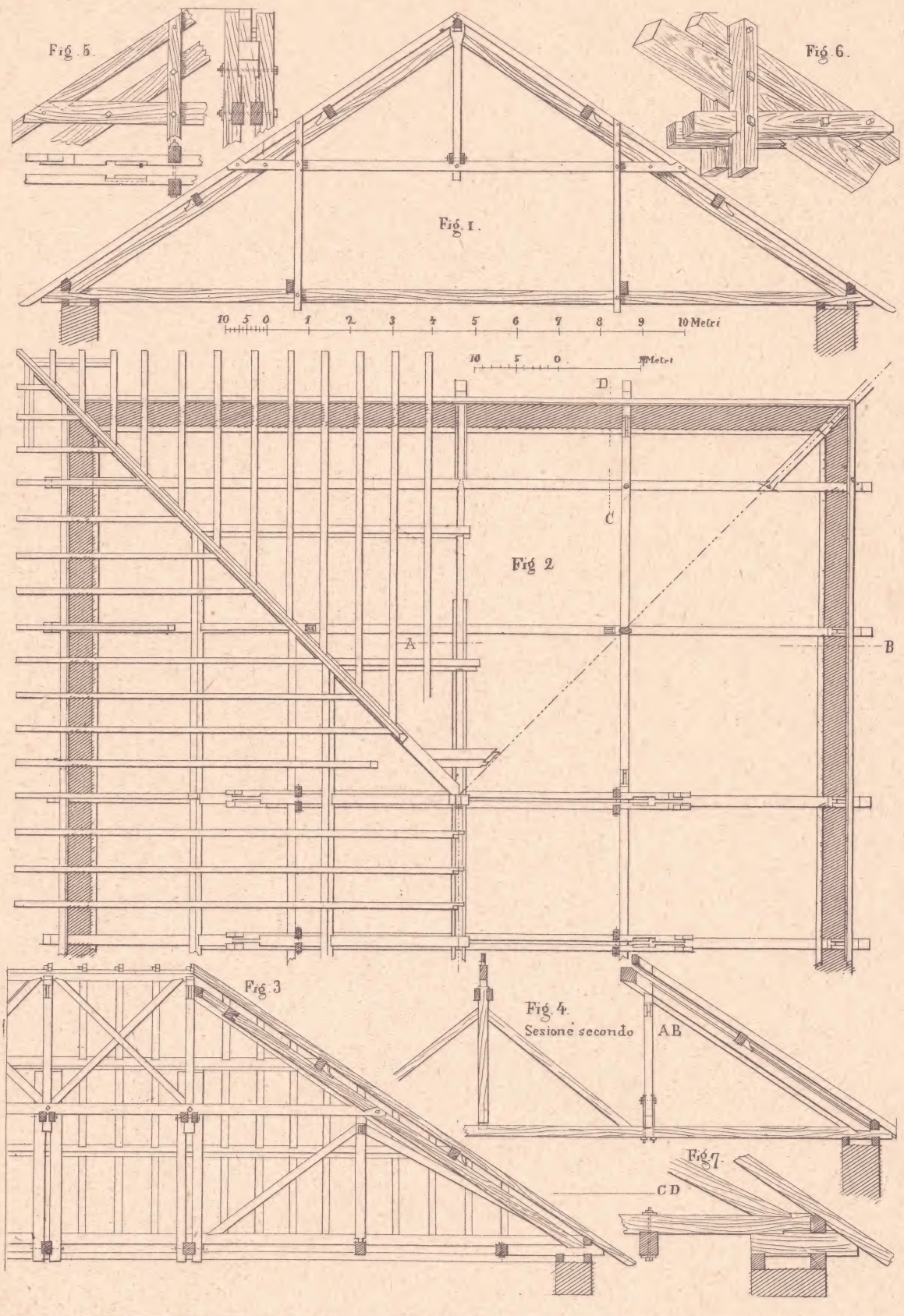


Fig. 5.
Fig. 6.
Fig. 1.
10 5 0 1 2 3 4 5 6 7 8 9 10 Metri
10 5 0 Metri
D
C
Fig. 2
A
B
Fig. 3
Fig. 4.
Sezione secondo AB
Fig. 7.
CD

Fig 2

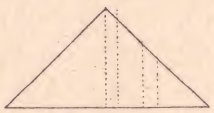


Fig 1

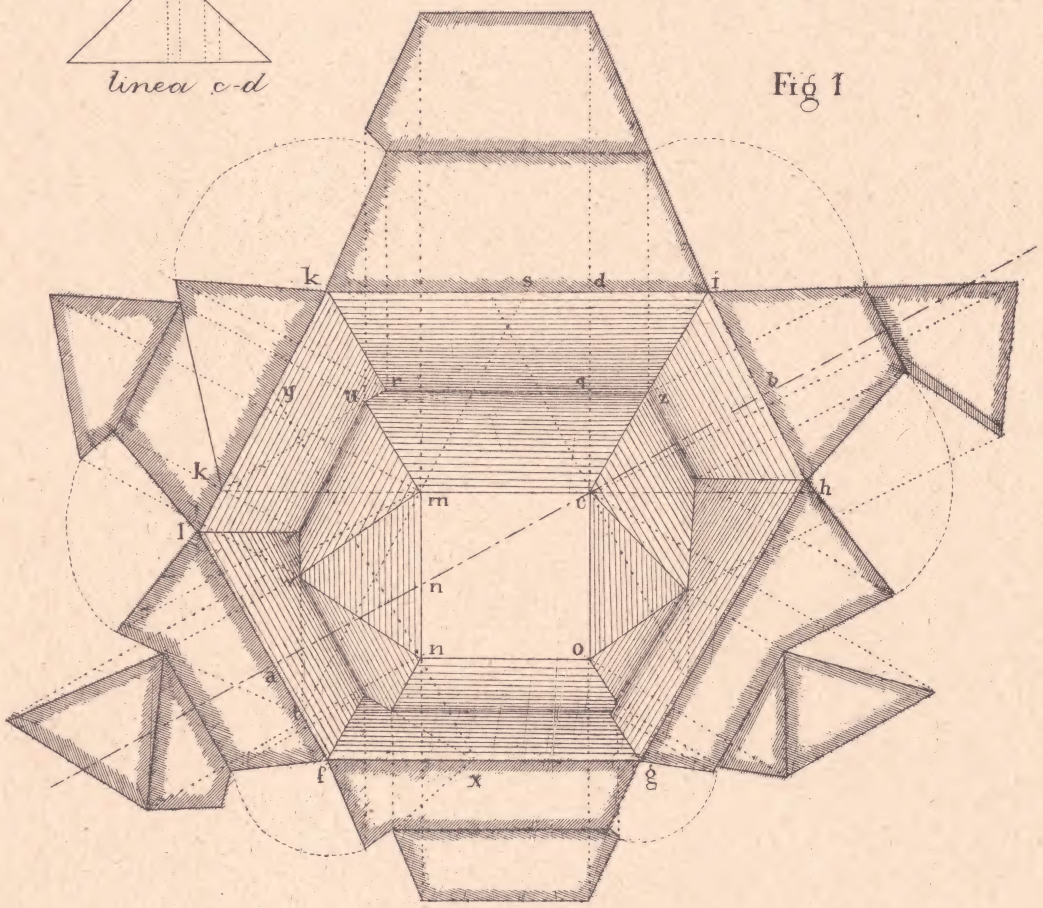


Fig 3

Linea a-b

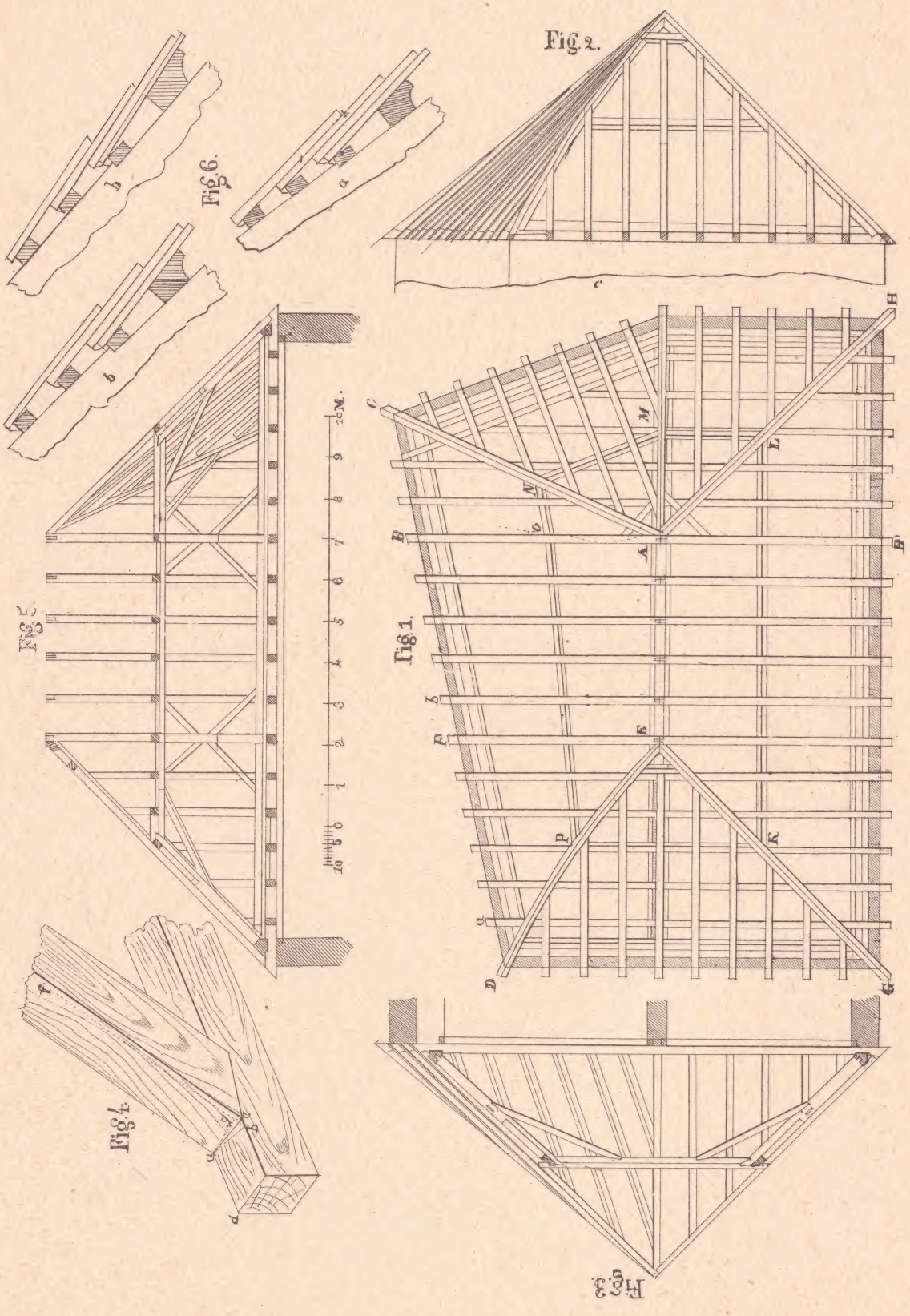


Fig. 2.
Fig. 6.
Fig. 5.
Fig. 1.
Fig. 4.
Fig. 3.

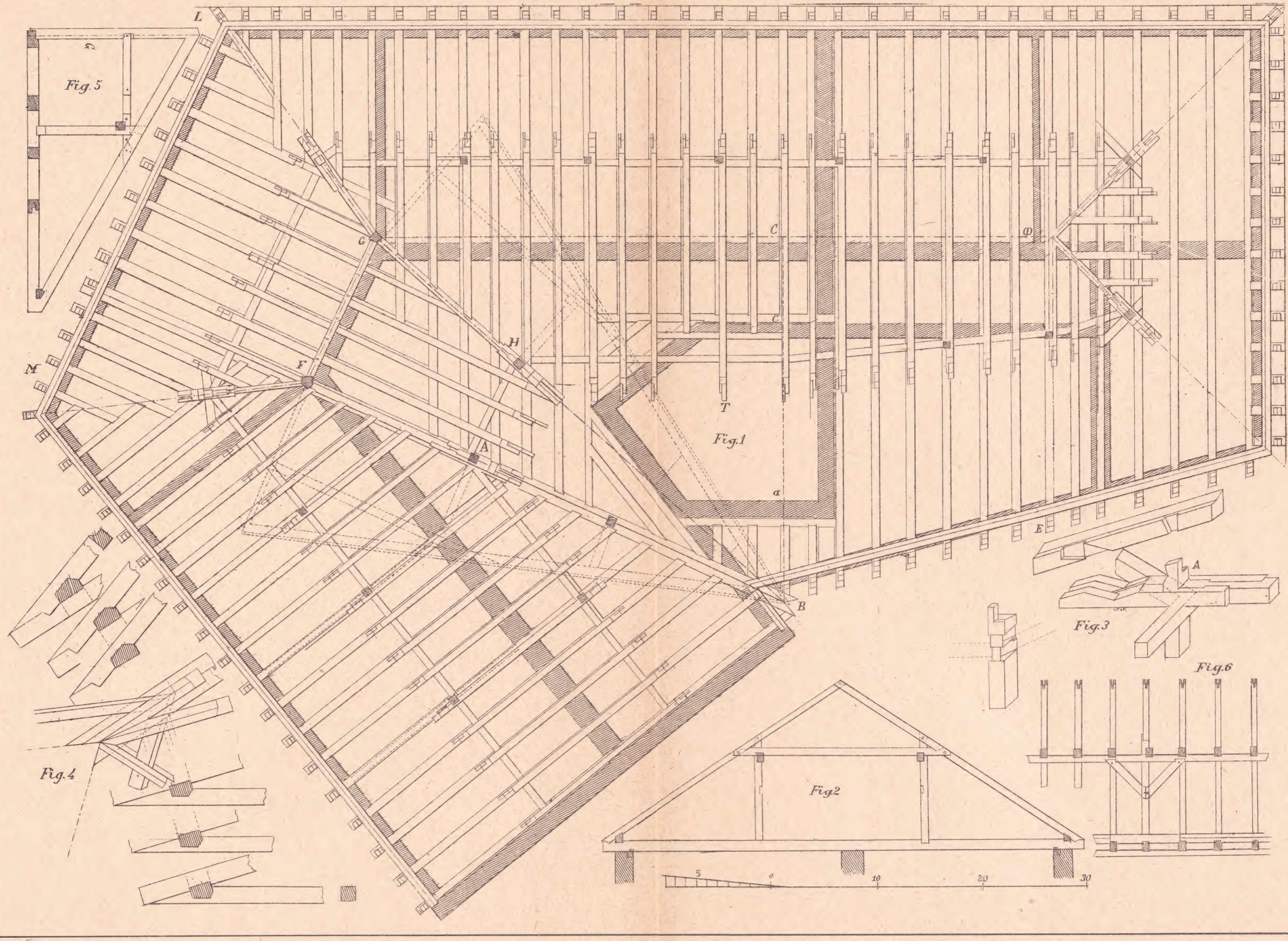
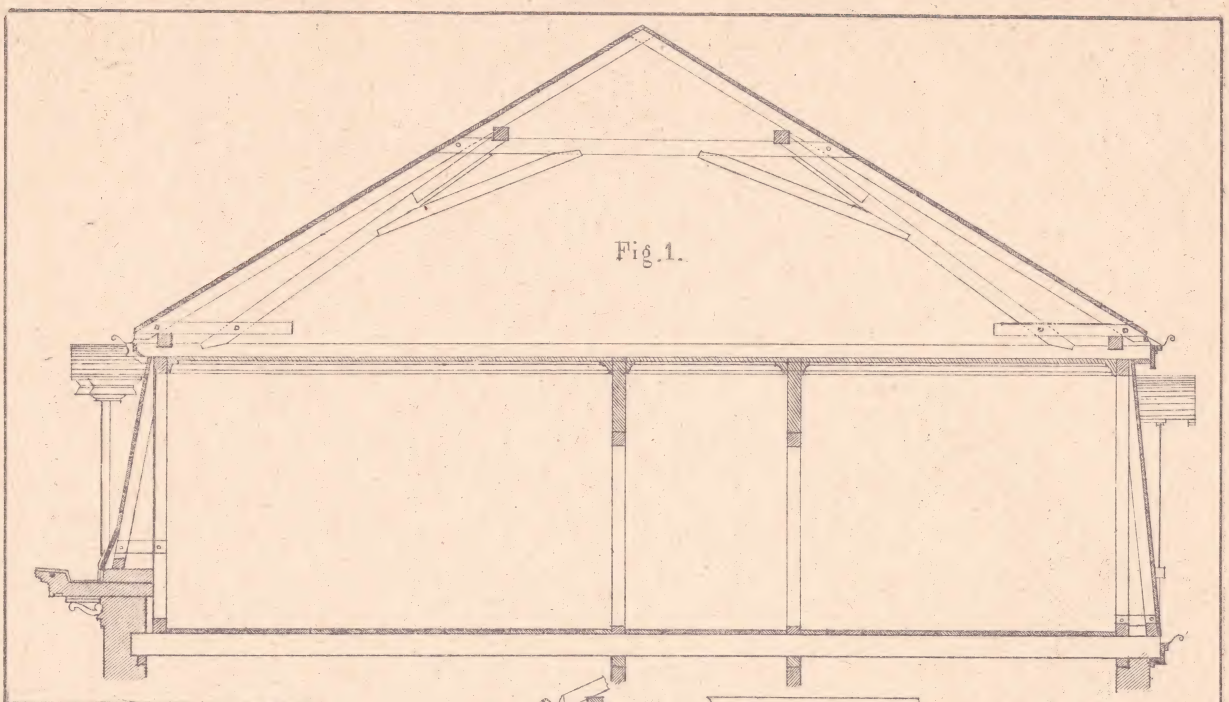

L
D
Fig. 5
G
H
M
F
A
C
C
T
Fig. 1
a
B
E
A
Fig. 3
Fig. 6
Fig. 4
Fig. 2
5
0
10
20
30

Fig. 1.



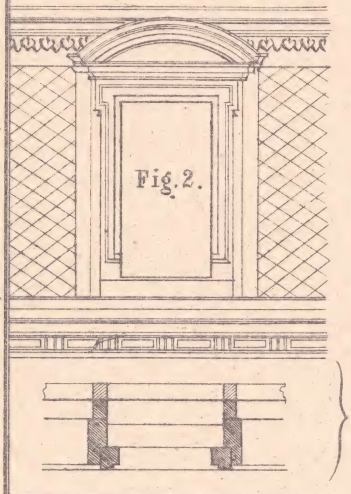


Fig. 2.

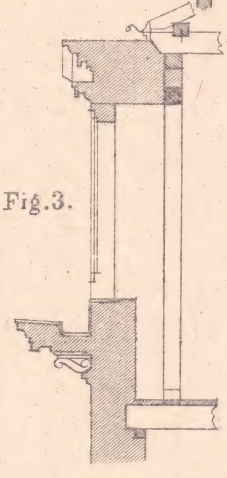


Fig. 3.

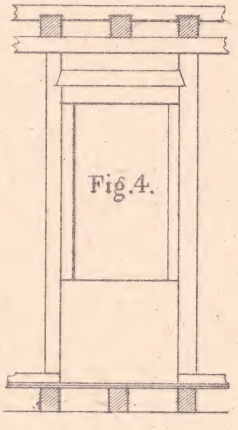
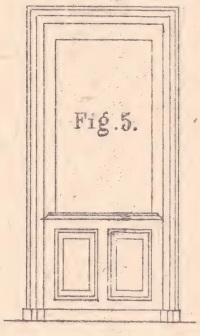


Fig. 4.



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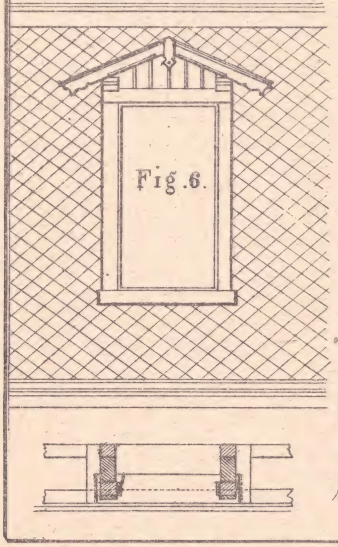

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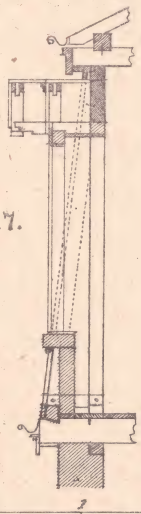

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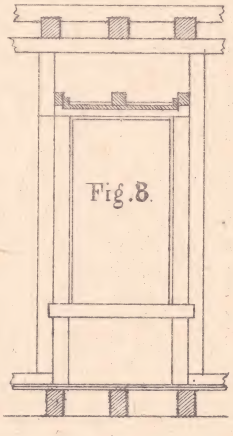

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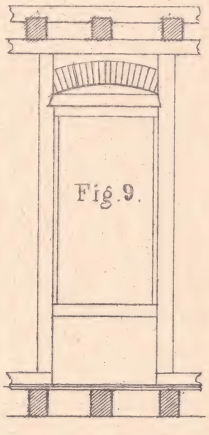

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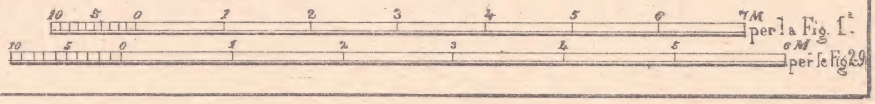
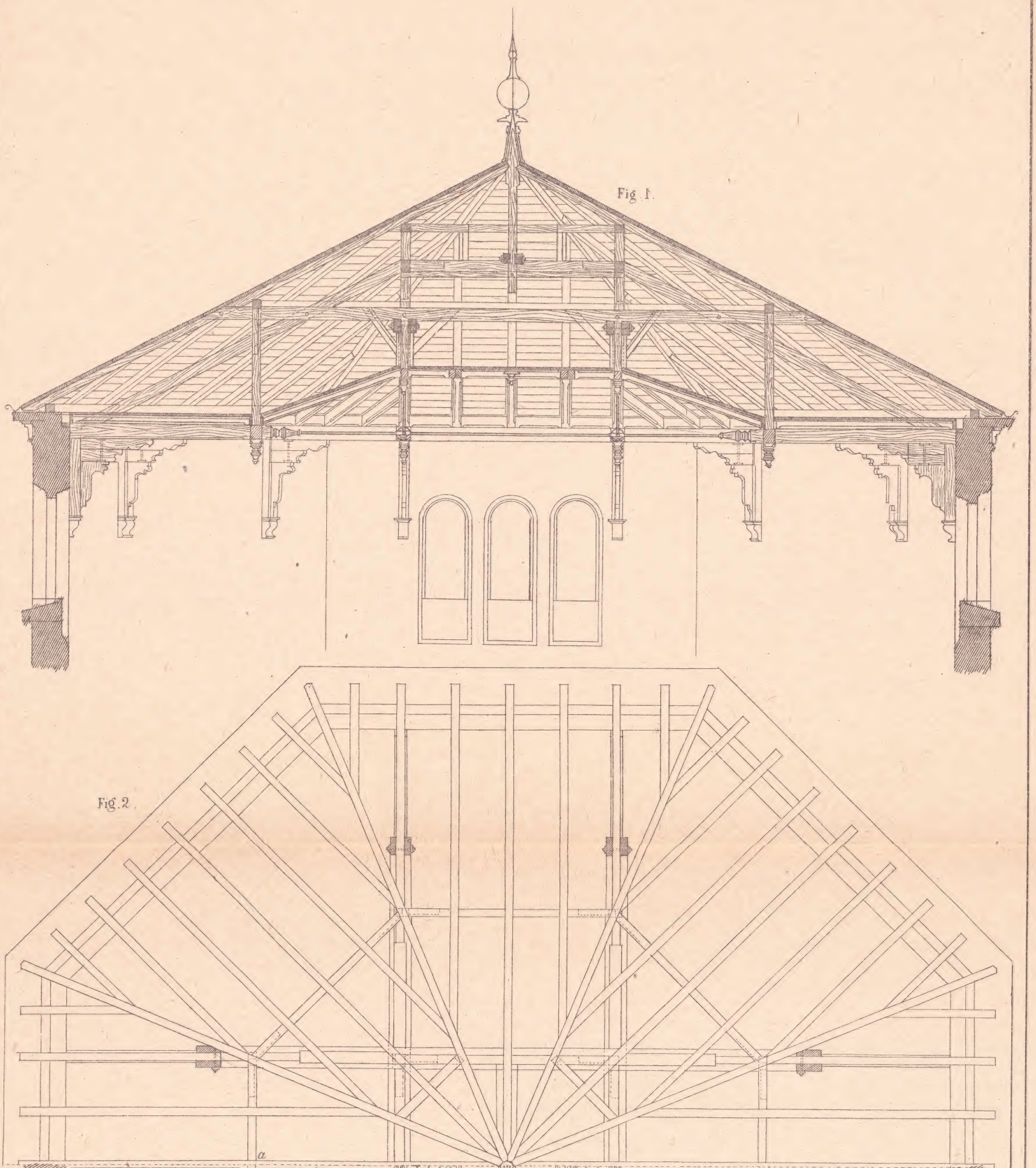


Tav. 60.

Fig. 1.



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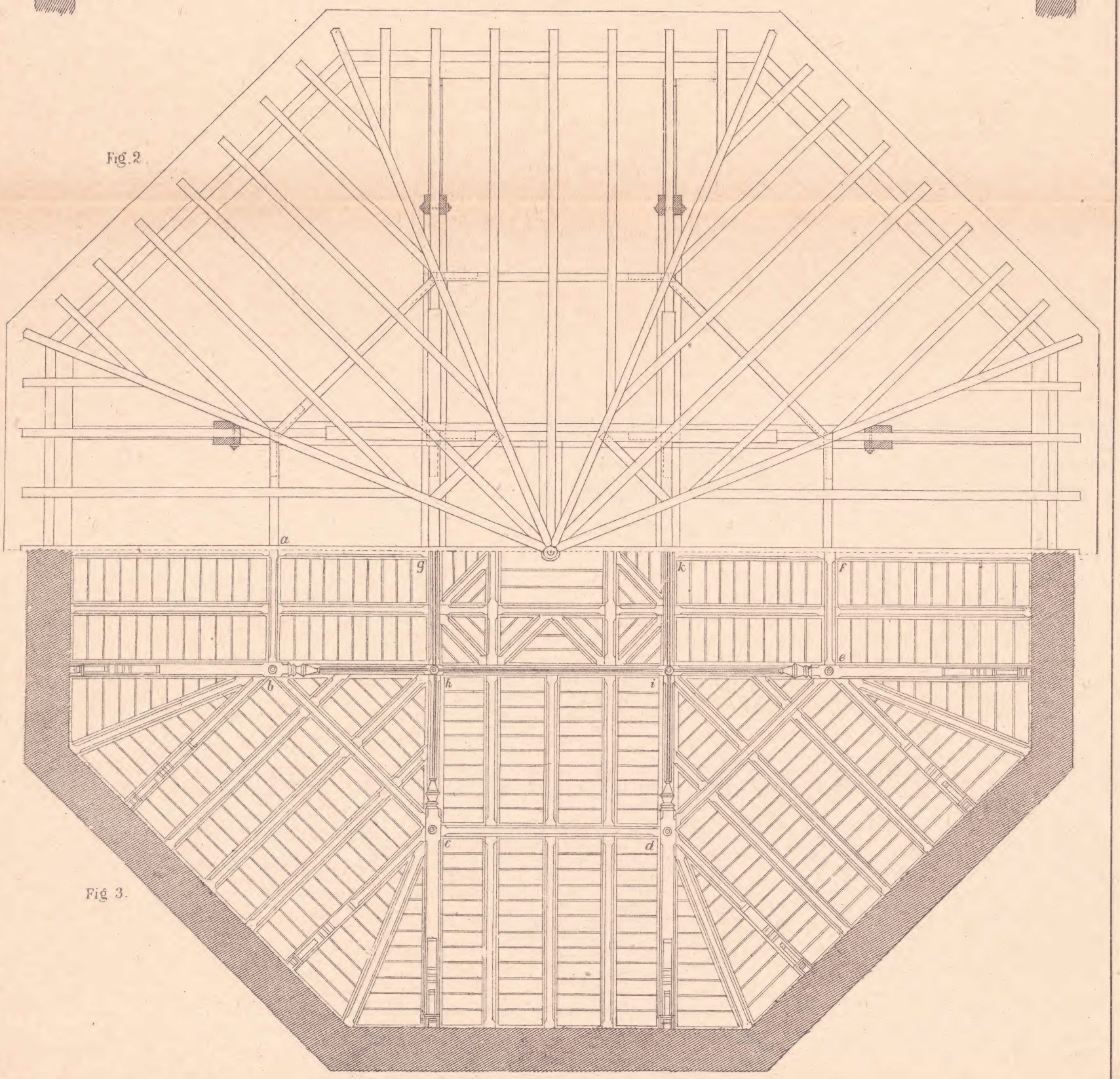
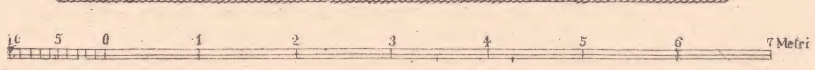


Fig 3.



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Bregnani II

Fig. 5.

Fig. 2.

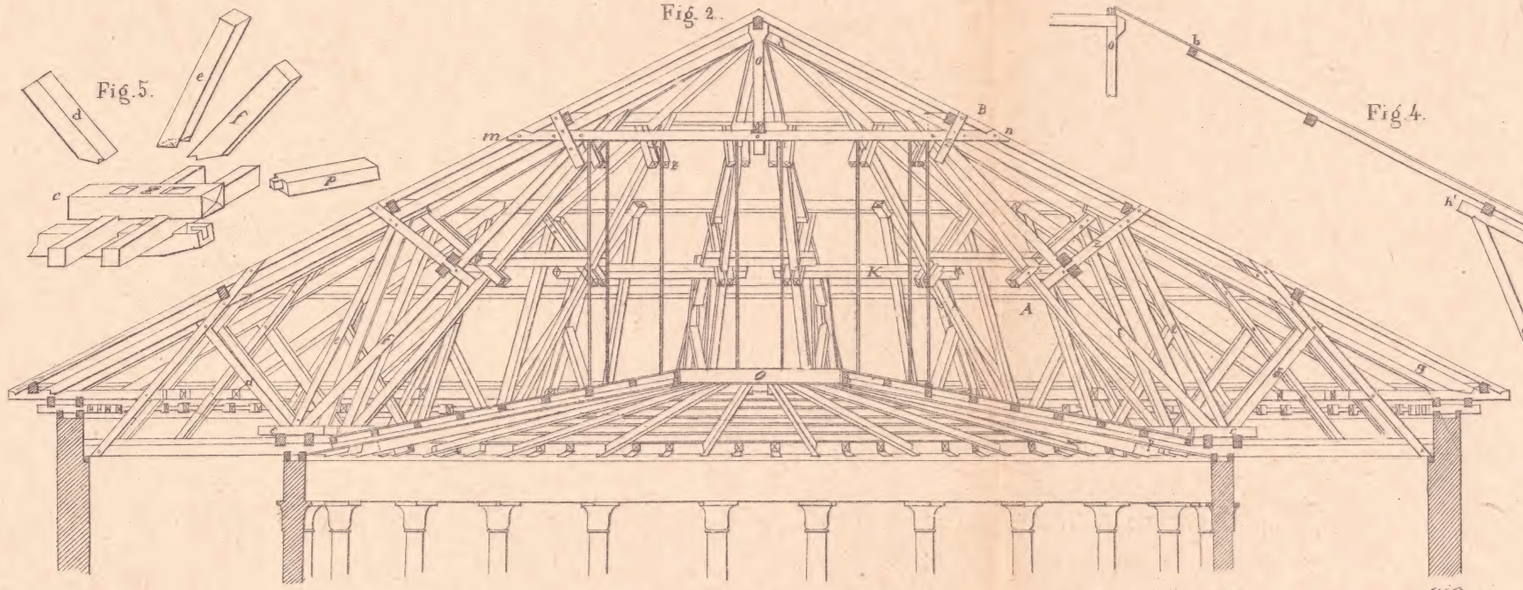


Fig. 4.

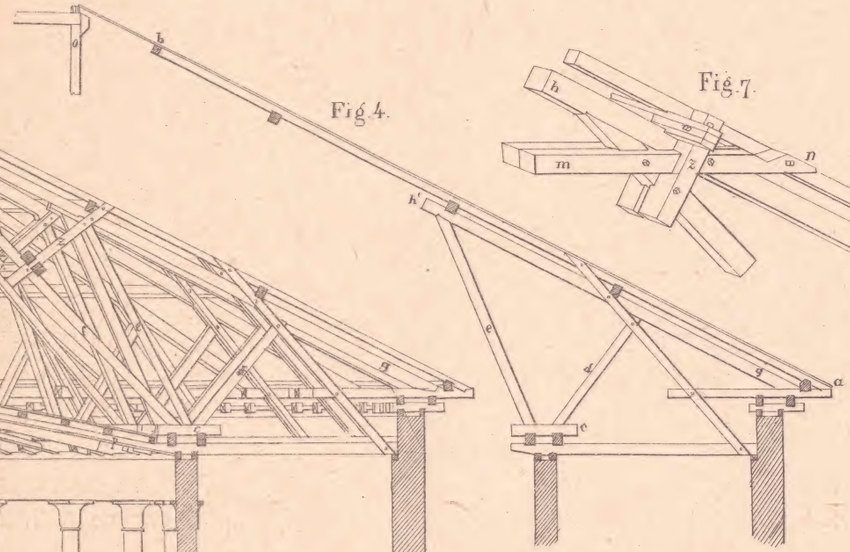


Fig. 7.

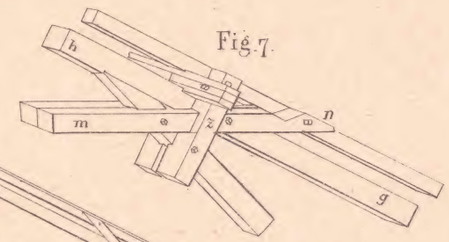


Fig. 1.

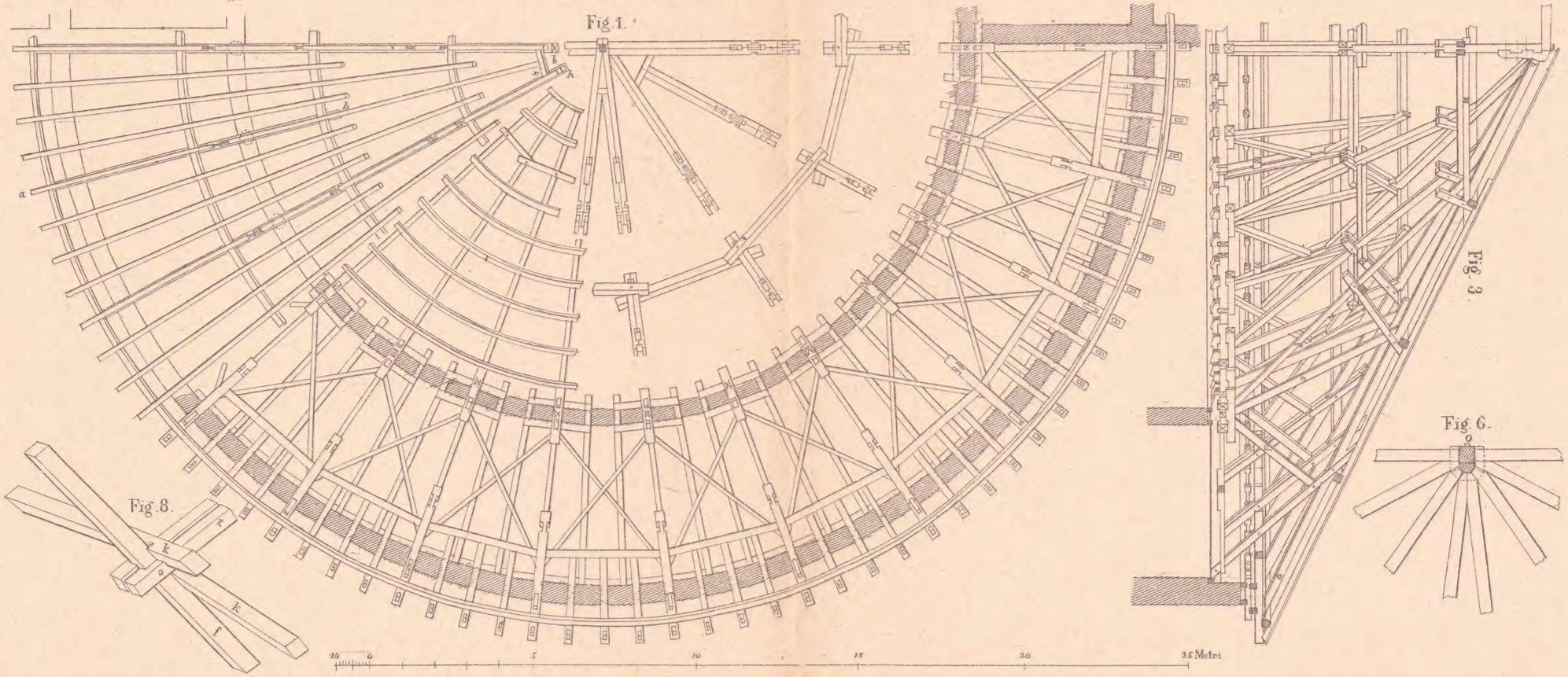


Fig. 3.

Fig. 8.

Fig. 6.

Tav. 62.

Fig. 1.

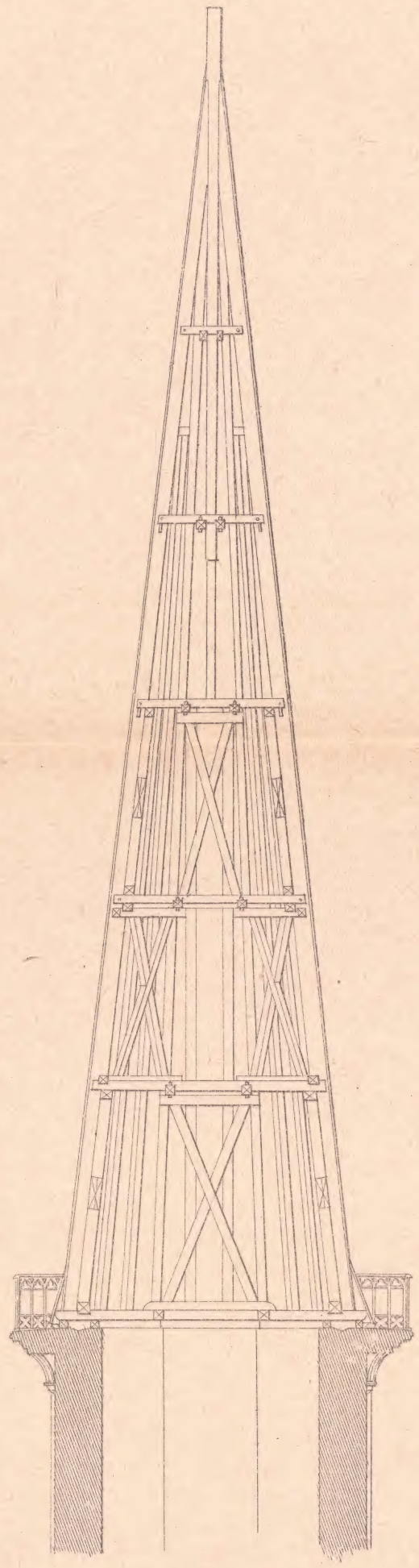


Fig. 9.

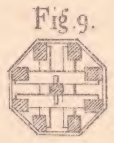
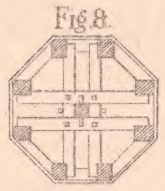
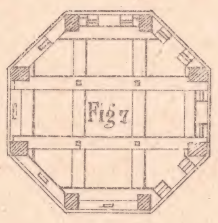
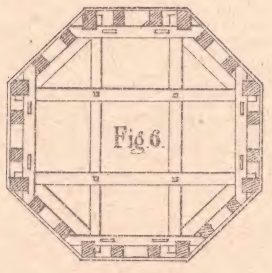
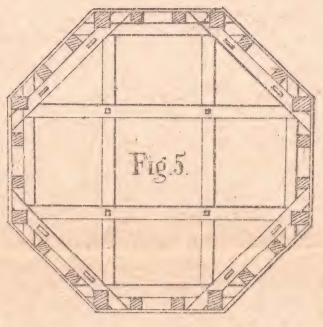


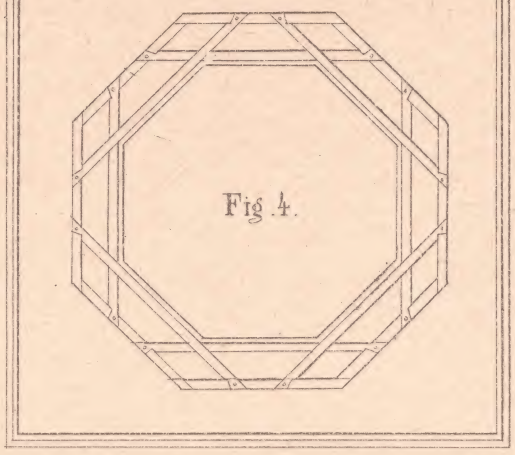
Fig. 8.











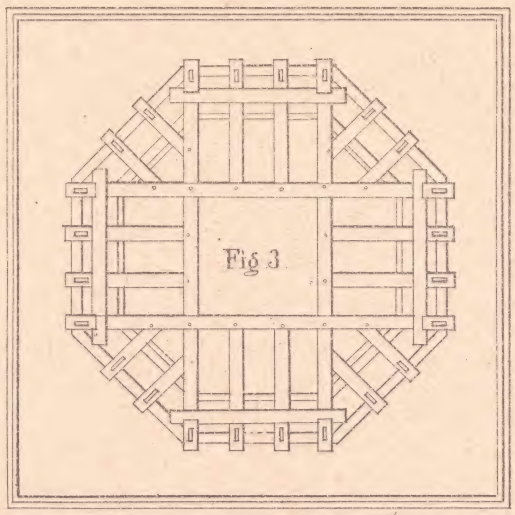
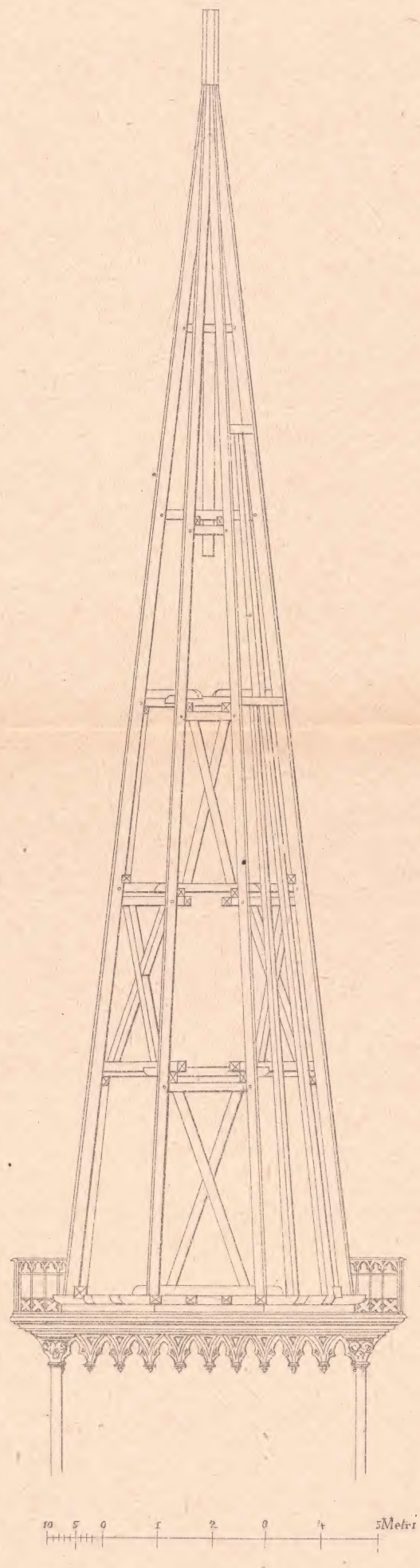


Fig. 2.



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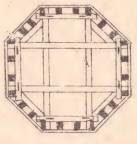
Guglia della torre della chiesa di S.t Nicolao in Flensburg

Fig. 8.

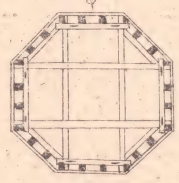
6.o Ordine di catene

Fig. 6.



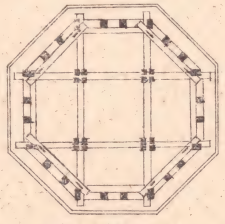
7.o Ordine di catene

Fig. 7.



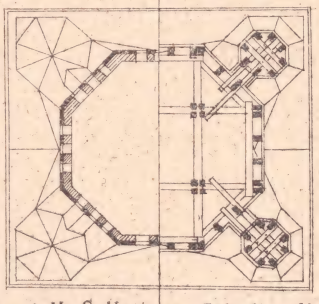
5.o Ordine di catene

Fig. 6



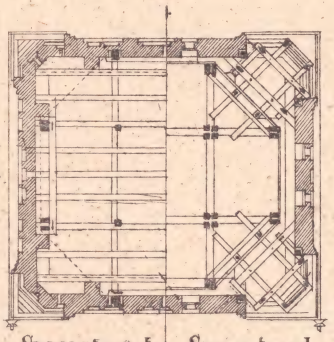
4.o Ordine di catene

Fig. 5



Pianta della Galleria — 3.o Ordine di catene

Fig. 4.



Spaccato a-b — Spaccato c-d

Fig. 1

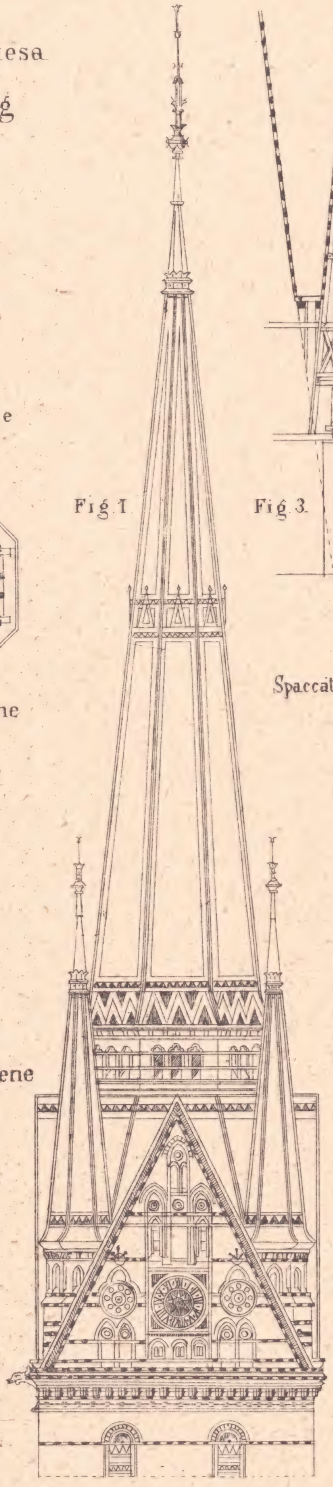
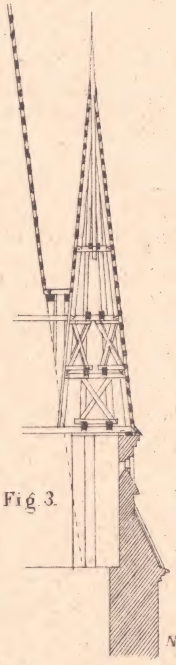
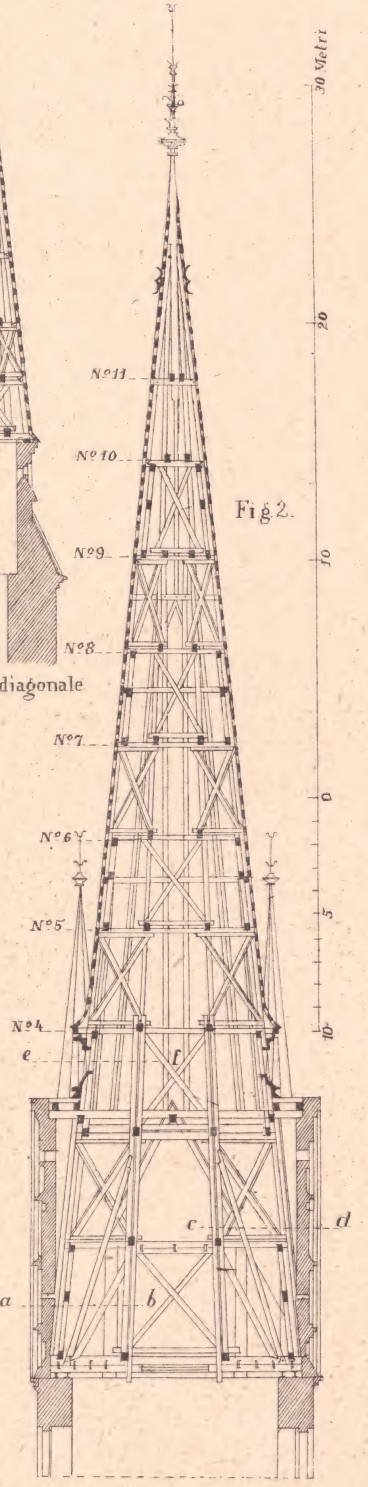


Fig. 3.



Spaccato diagonale

Fig. 2.



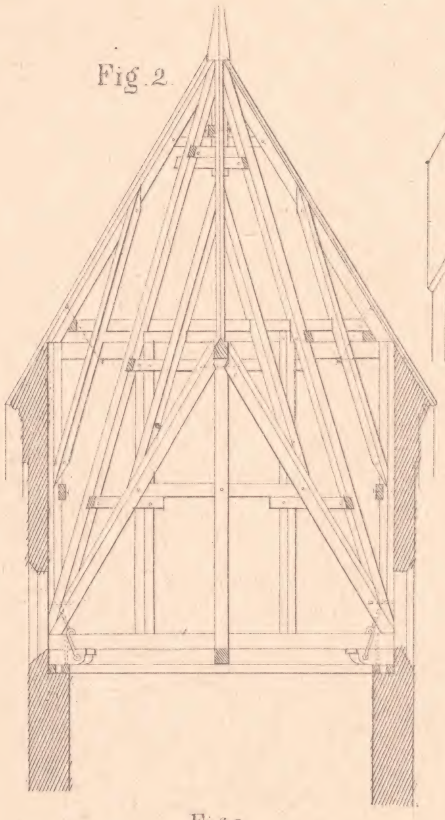


Fig. 2.

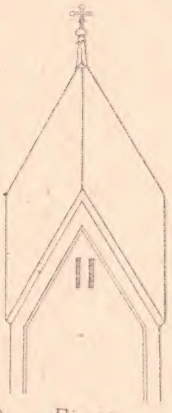


Fig. 11.

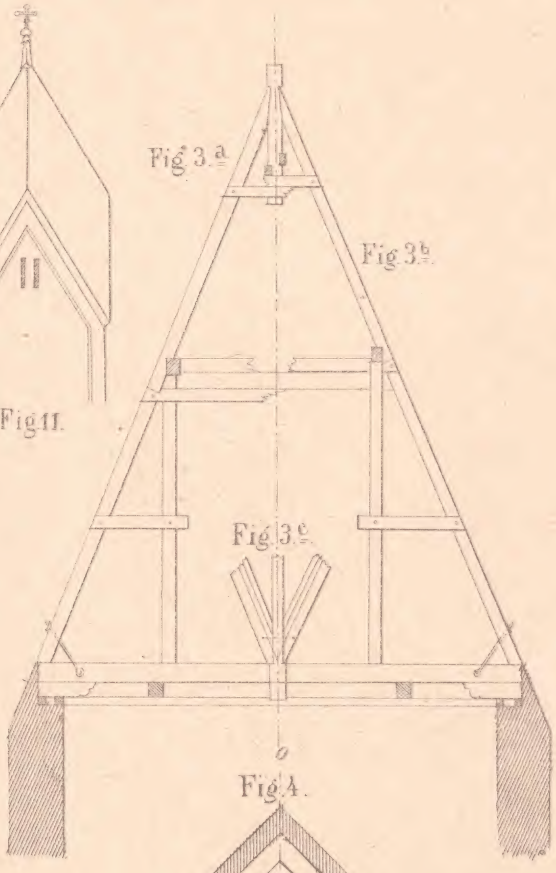


Fig. 3.a

Fig. 3.b

Fig. 3.c

Fig. 4.

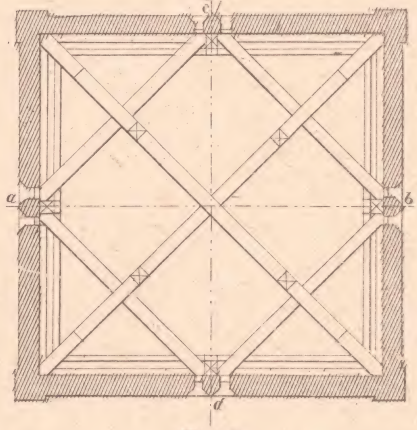


Fig. 1.

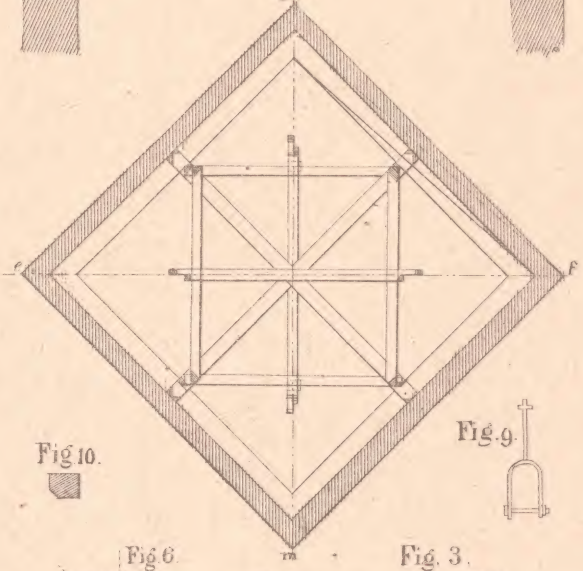


Fig. 10.

Fig. 9.

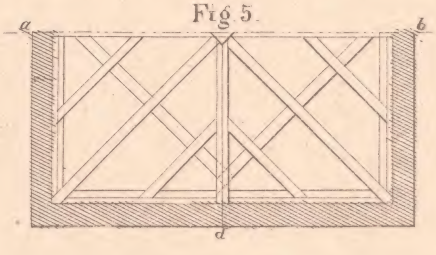


Fig. 5.

Fig. 6.

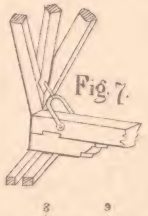


Fig. 7.

Fig. 3.

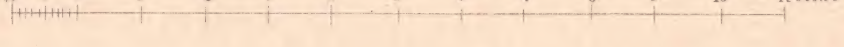
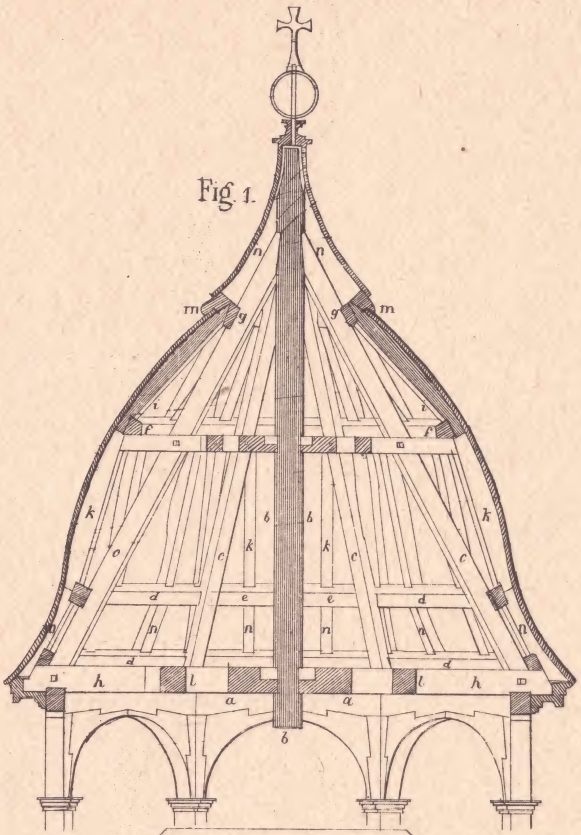


Fig. 1.



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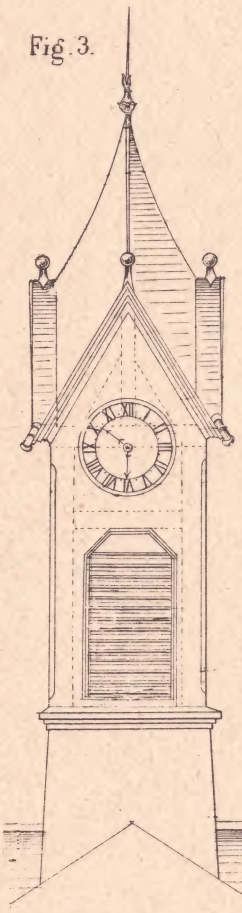


Fig. 2 a

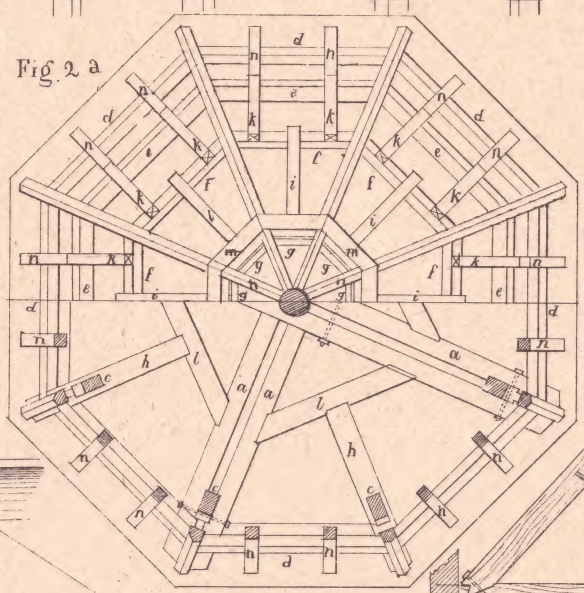


Fig. 2 b

Fig. 4.

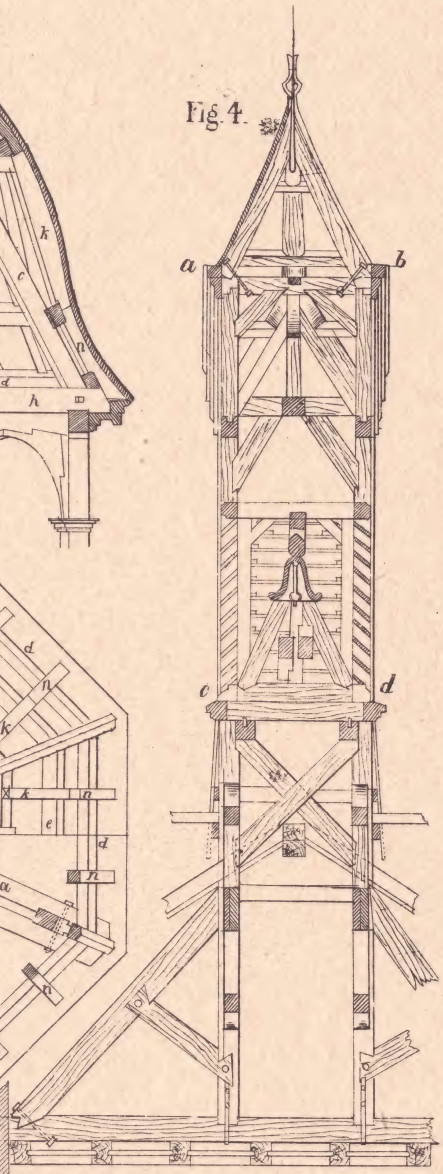


Fig. 5.
Sezione a-b

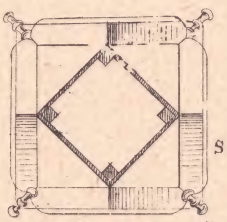
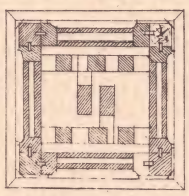


Fig. 6.
Sezione c-d



10 5 0 1 2 3 4 5 Metri

Tav 66.

Fig 4

Fig 2.

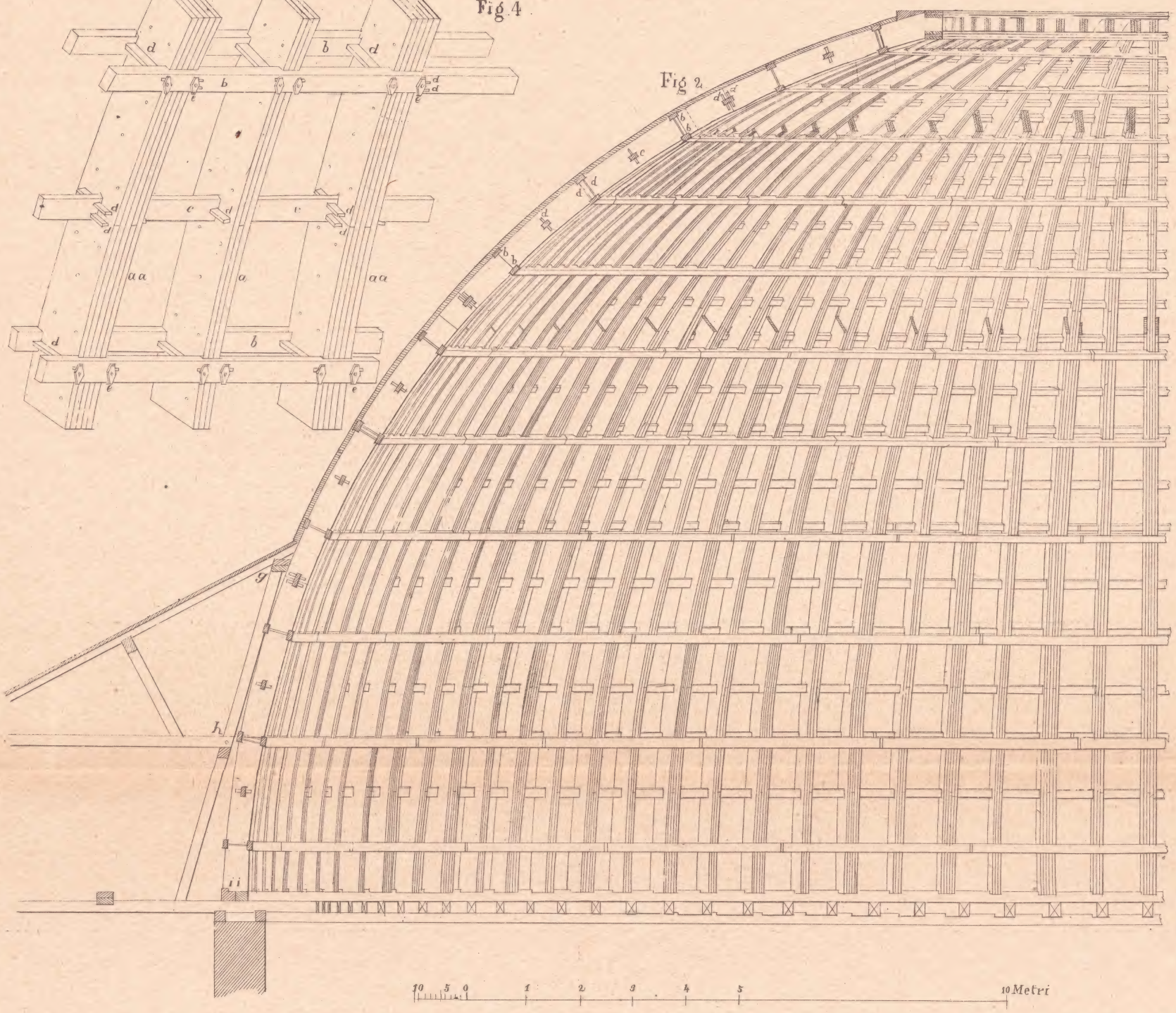
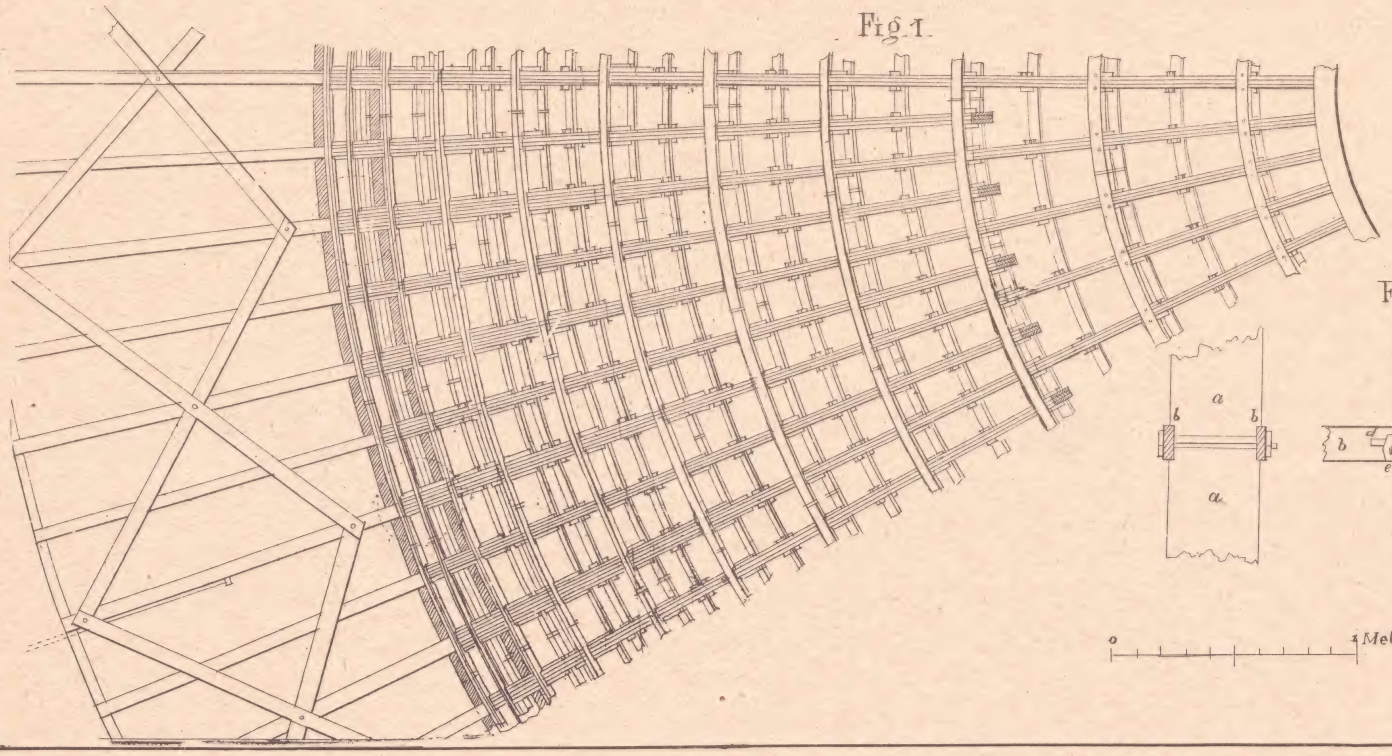


Fig. 1.



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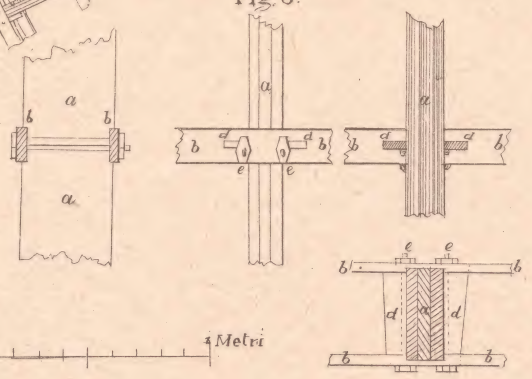


Cava Edit.e D.r F.sco Vallardi

Breymann II

Fig. 1.

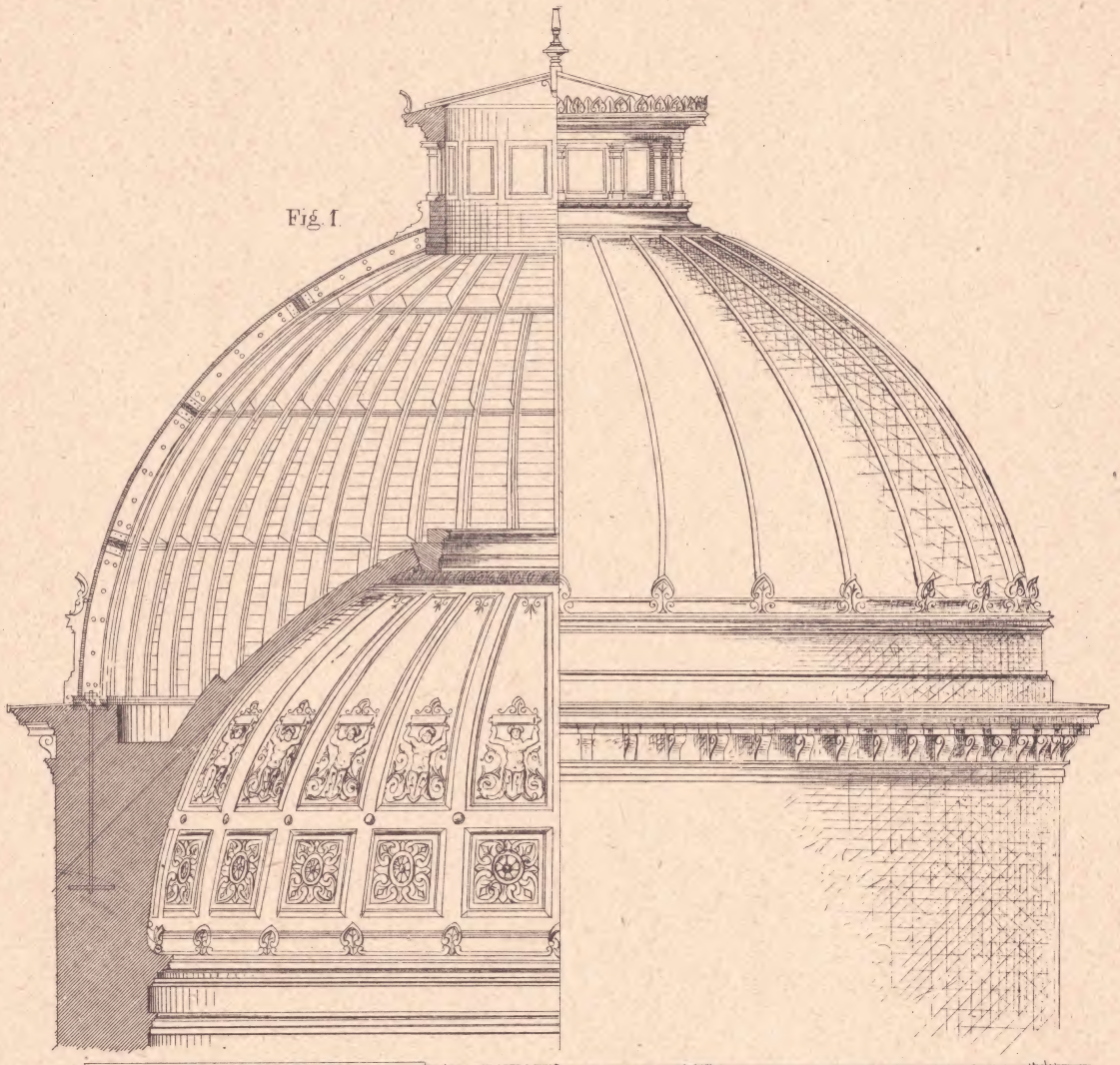


Fig. 2.

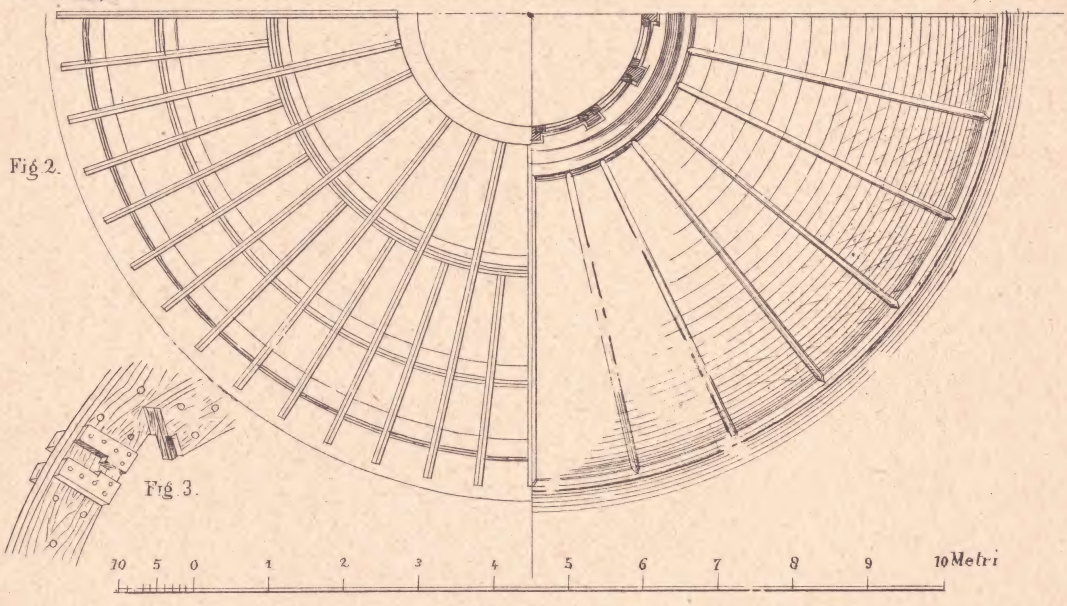
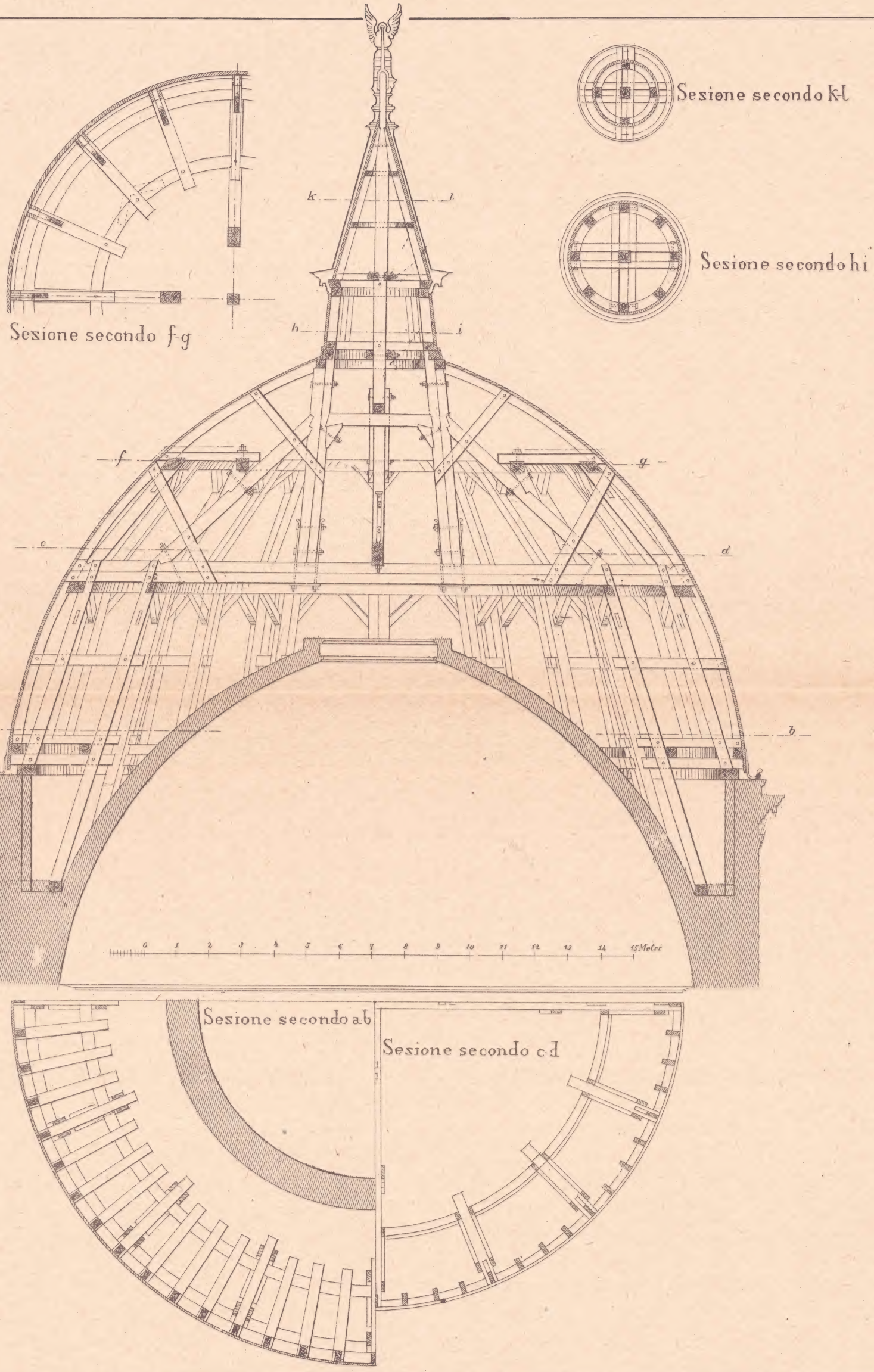


Fig. 3.

Tav. 68.



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Breymann II

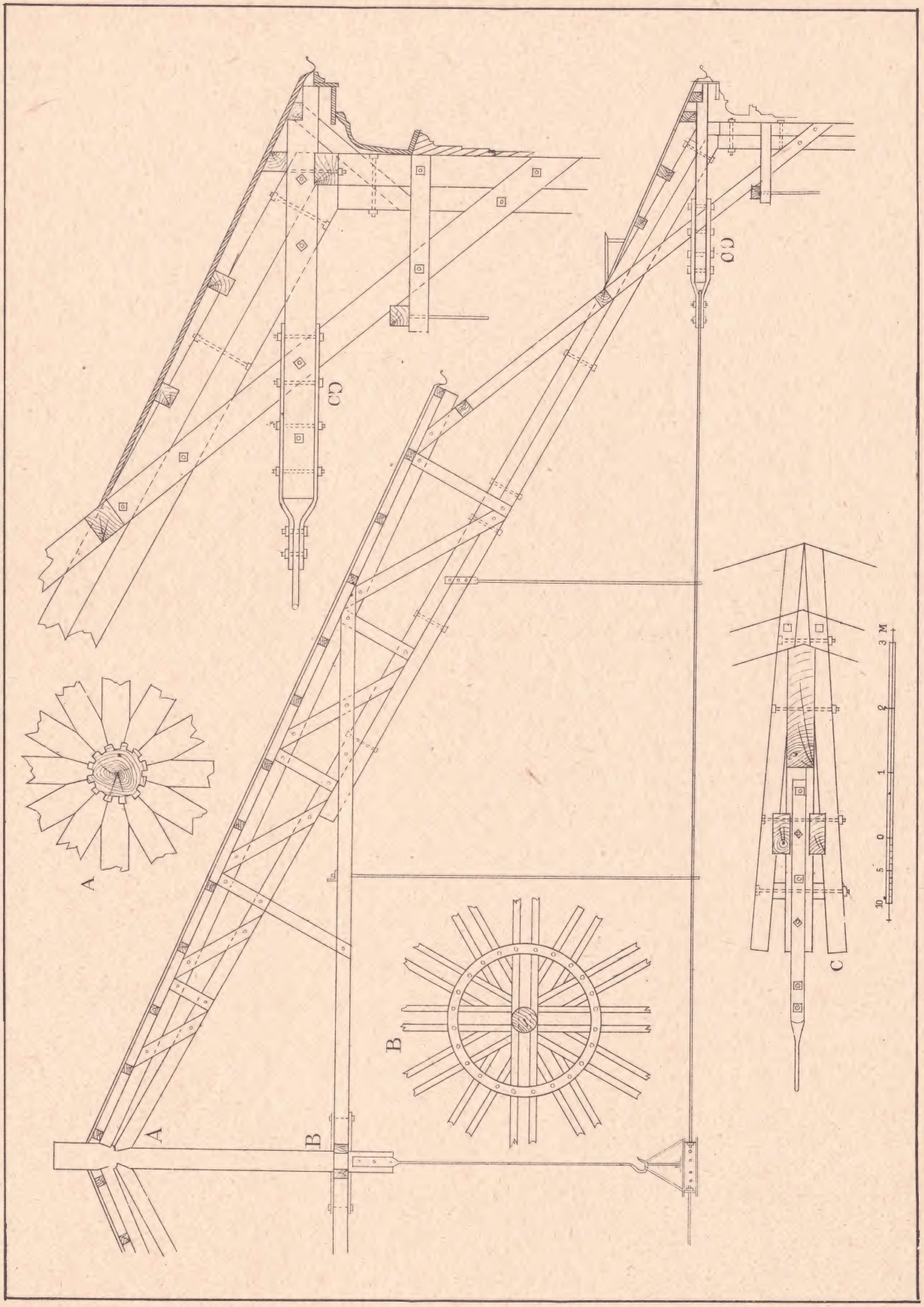
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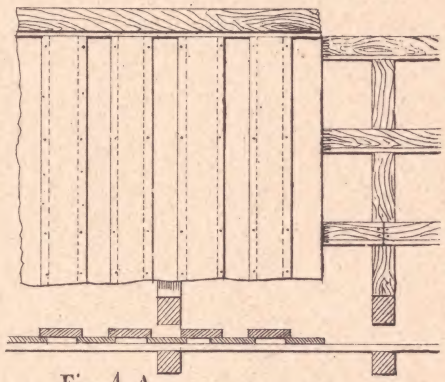
Fig. 1. C.



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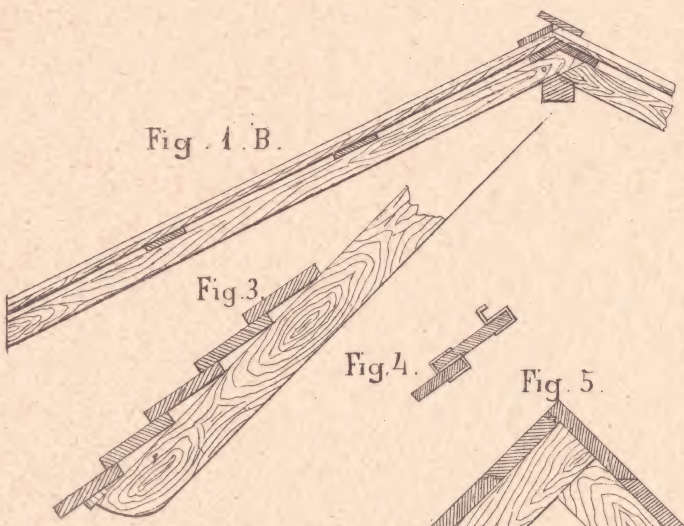


Fig. 3.

Fig. 4.

Fig. 5.

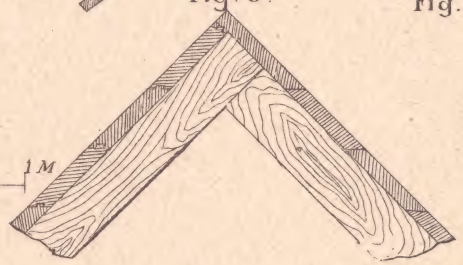
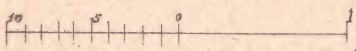


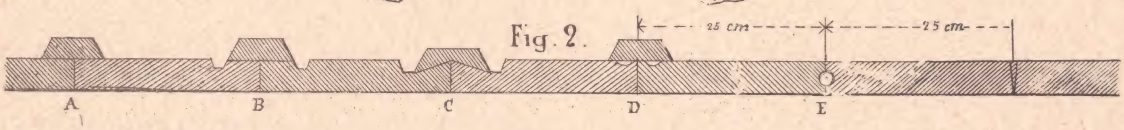
Fig. 1. A.

Fig. 6.



Per le Fig. 1. A. B. e C.

Fig. 2.



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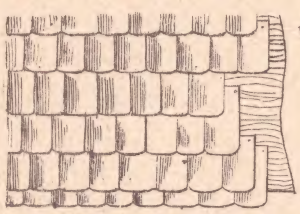

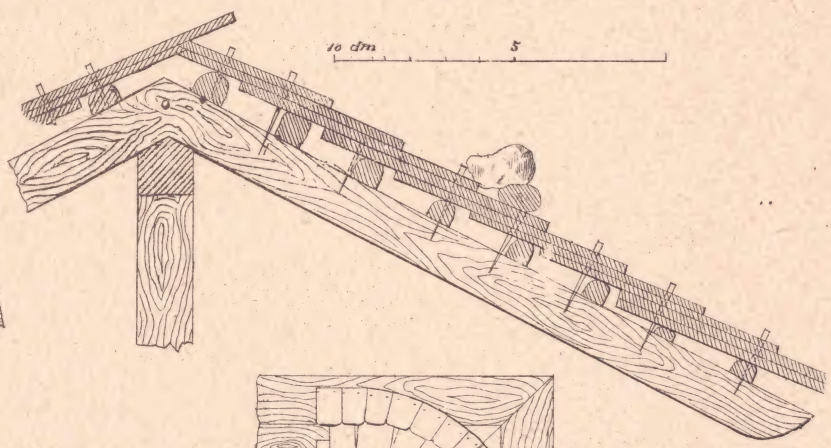

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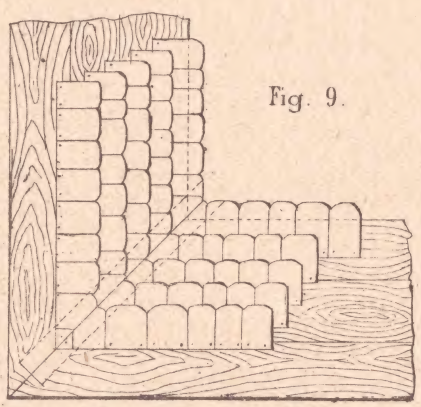

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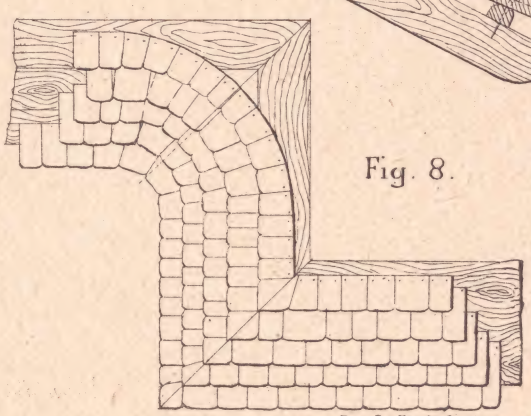
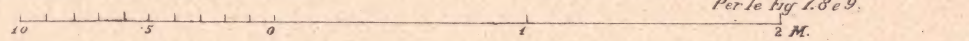


Per le Fig. 7. 8 e 9.



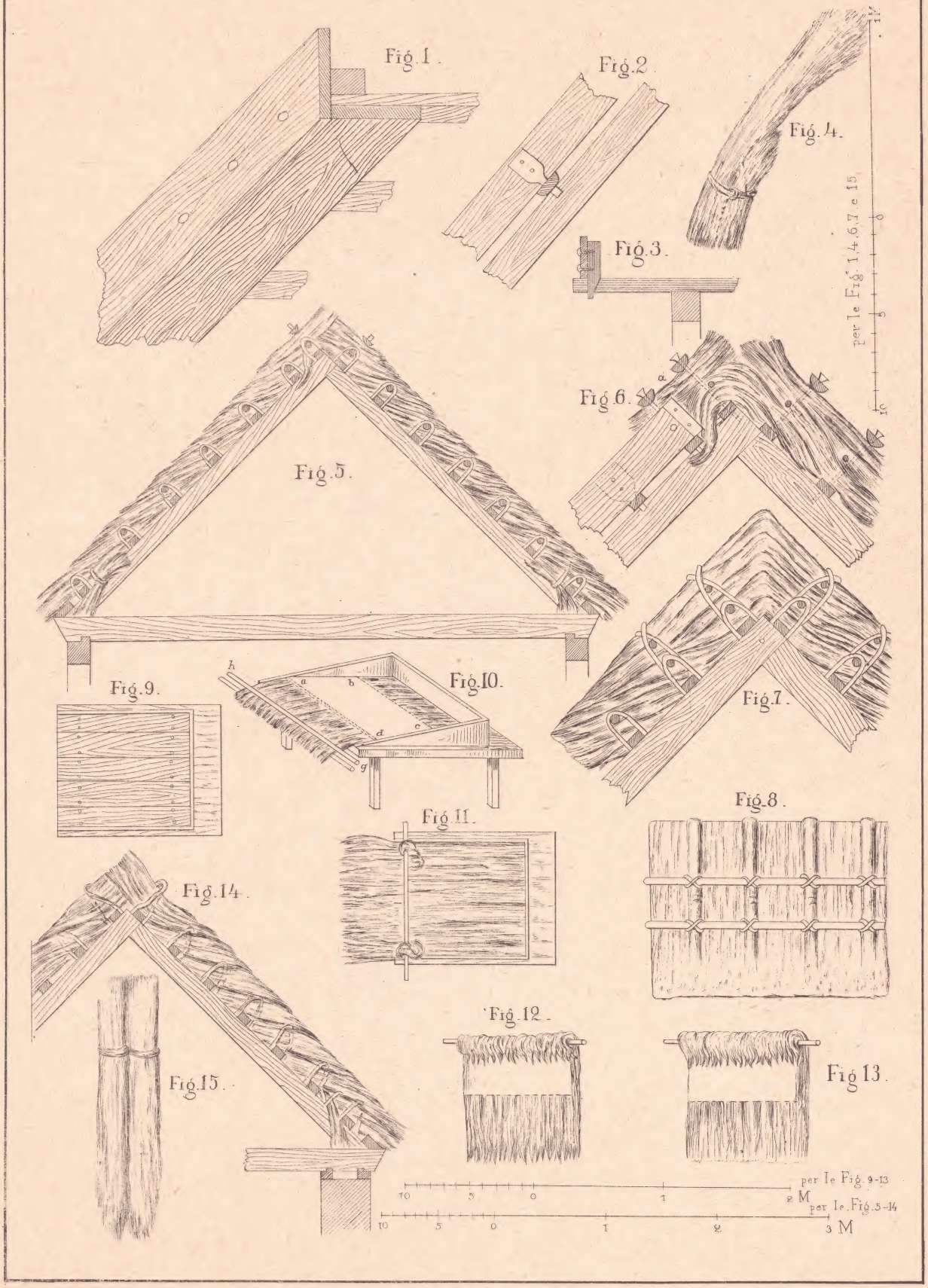
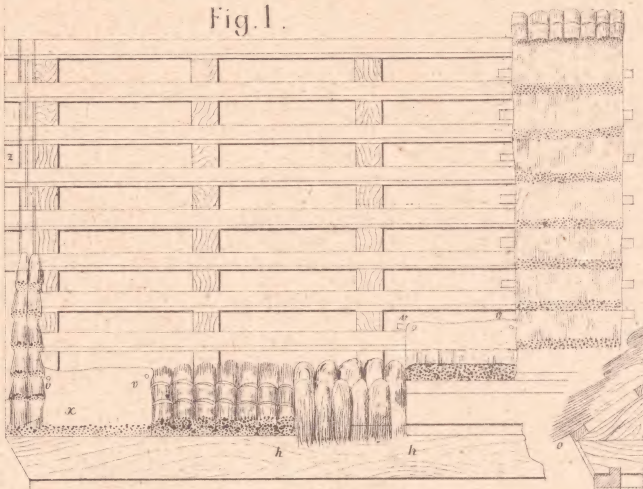


Fig. 1.
Fig. 2.
Fig. 4.
Fig. 3.
per le Fig.i 1.4.6.7 e 15
Fig. 6.
Fig. 5.
Fig. 7.
Fig. 9.
Fig. 10.
Fig. 8.
Fig. 11.
Fig. 14.
Fig. 12.
Fig. 15.
Fig. 13.
per le Fig. 9-13
2 M
per le Fig. 5-14
3 M

Fig. 1.



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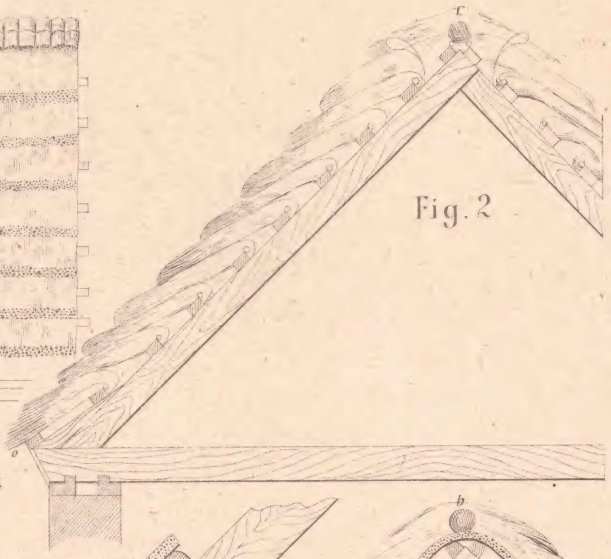
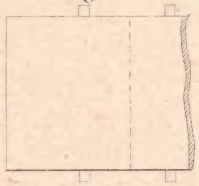


Fig. 6



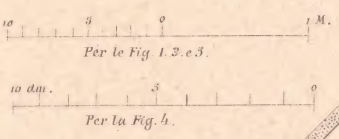


Fig. 3.

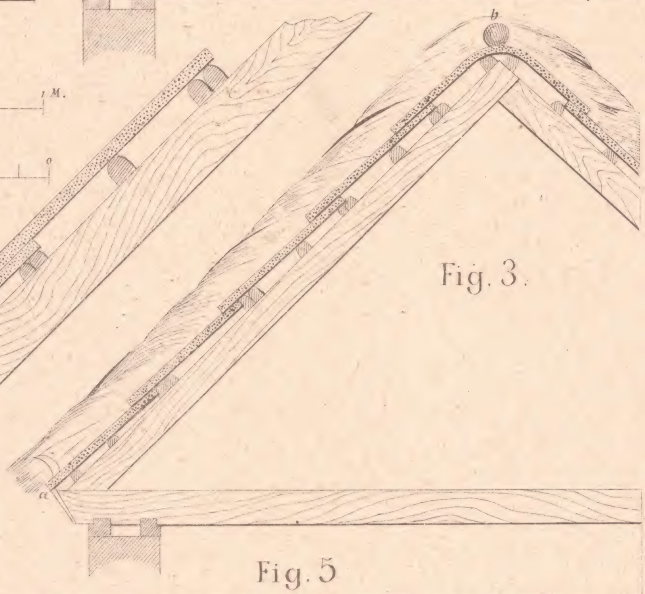


Fig. 4

Fig. 7

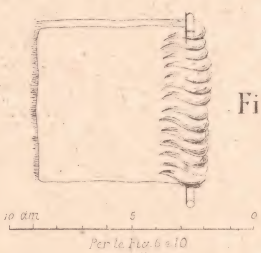


Fig. 5

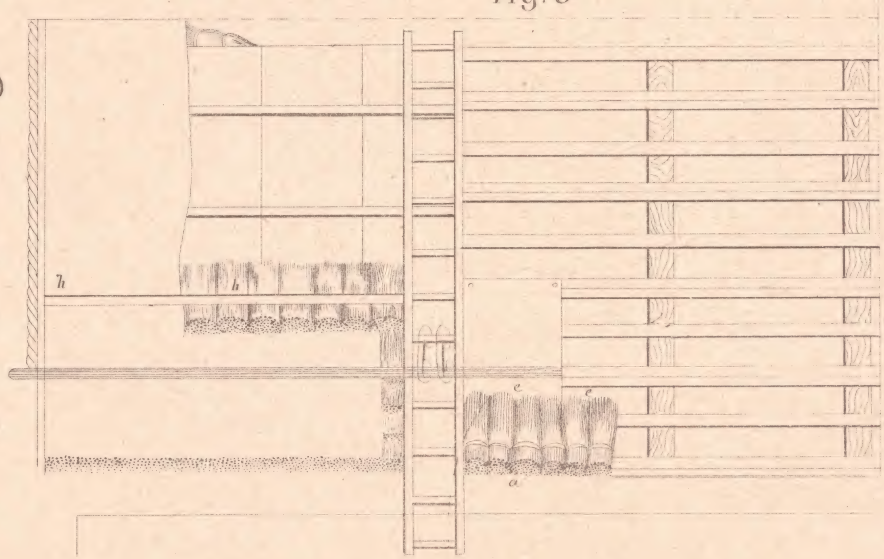


Fig. 8.

Fig. 9

Fig. 10

Fig 1

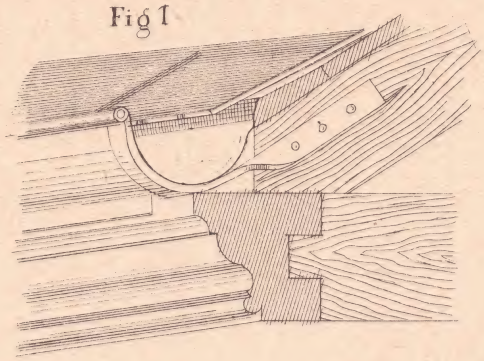


Fig 2

Fig 3

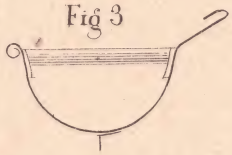


Fig 4

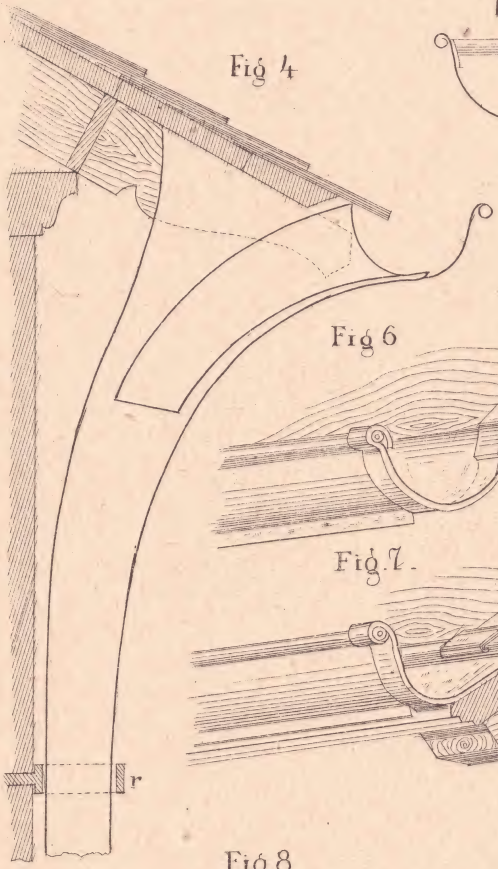


Fig 5

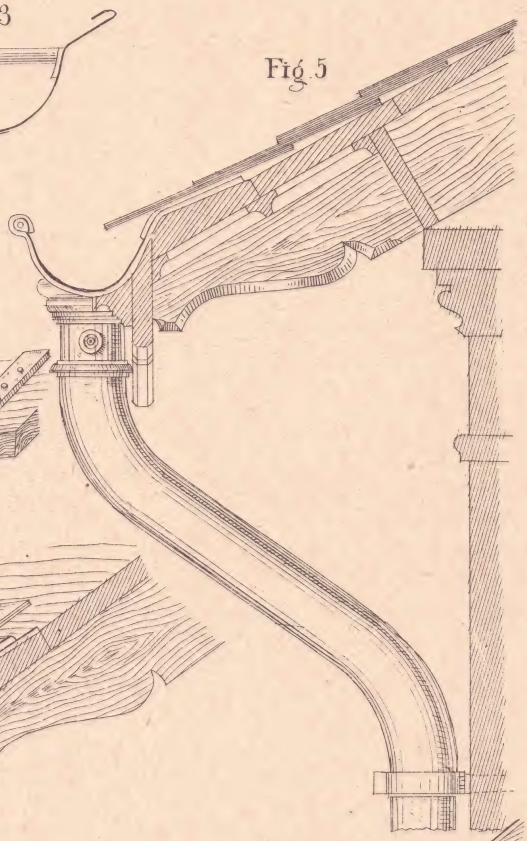
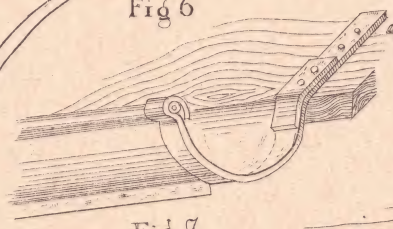


Fig 6



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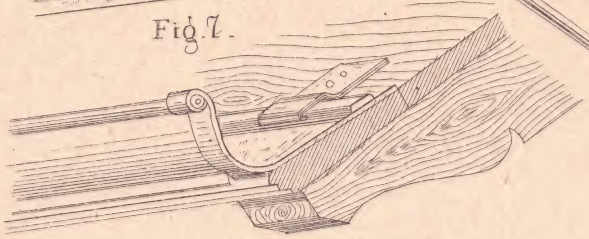

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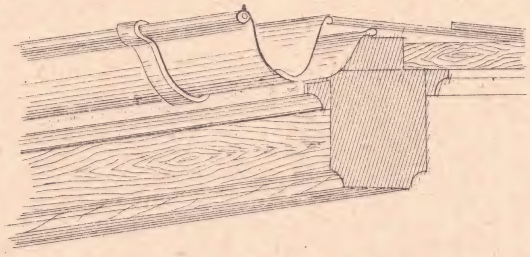

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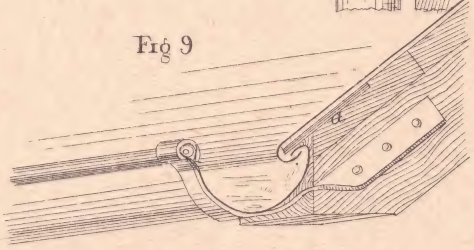


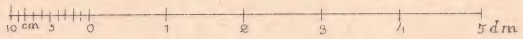
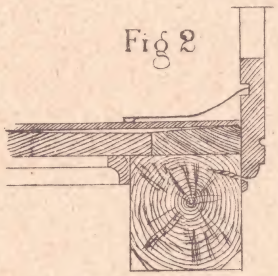
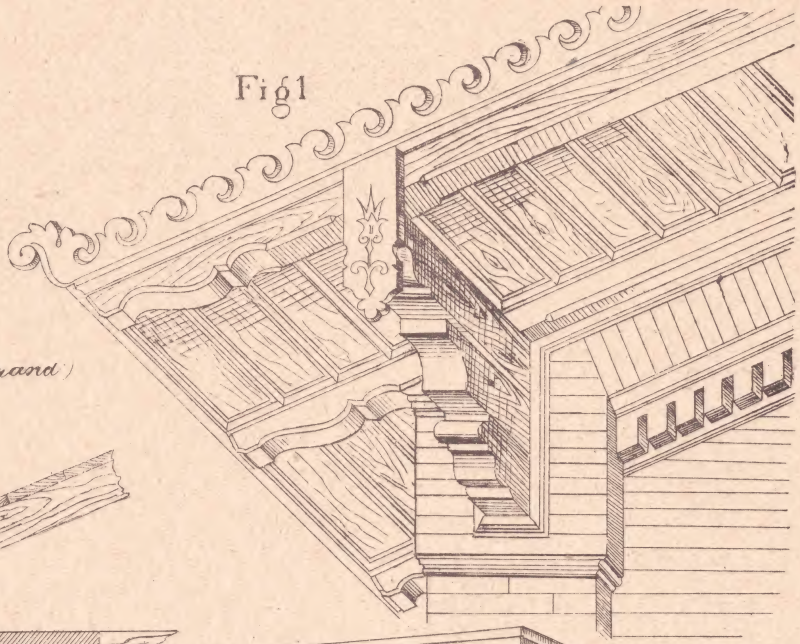


Fig 2



Sezione a-b (tripla grand.)

Fig 1



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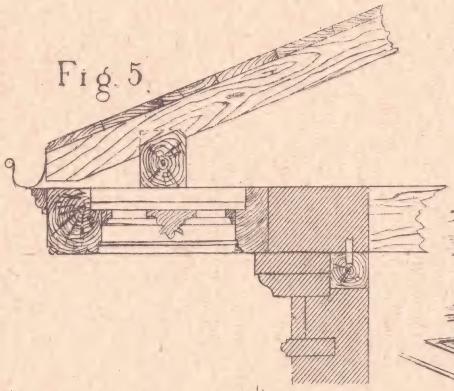


Fig 7

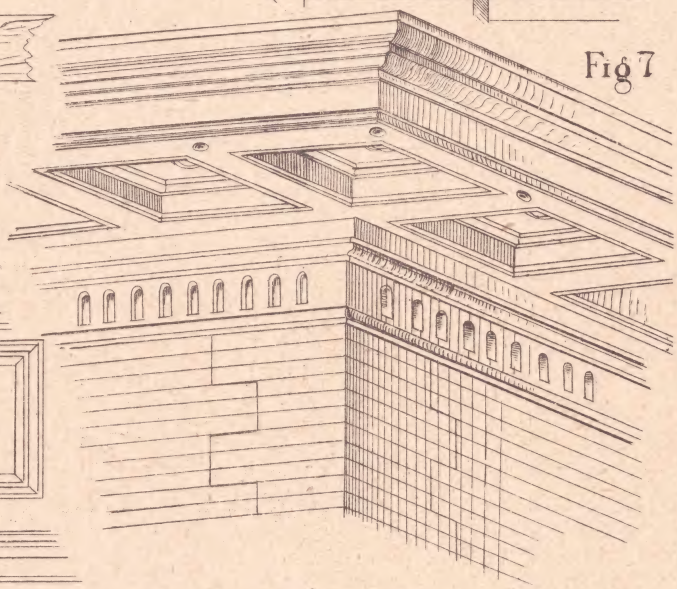


Fig 6

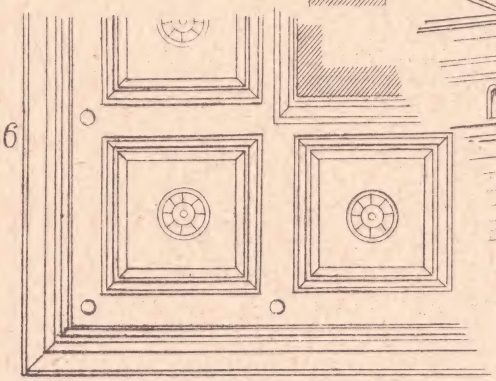
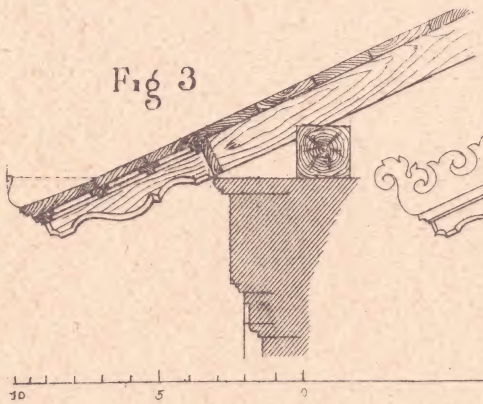


Fig 3



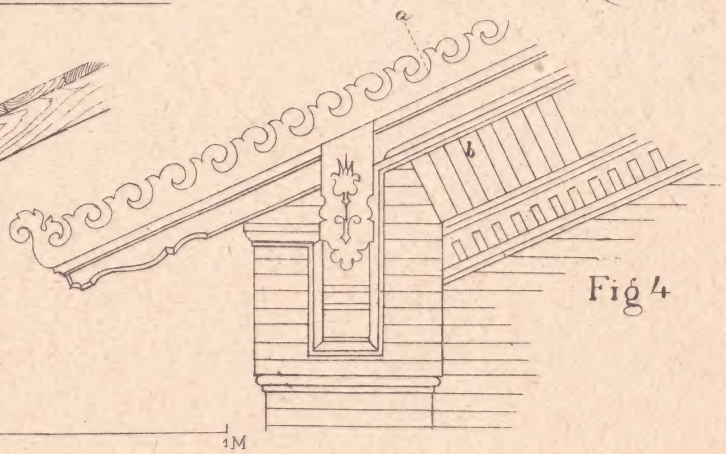


Fig 4

Fig. 1

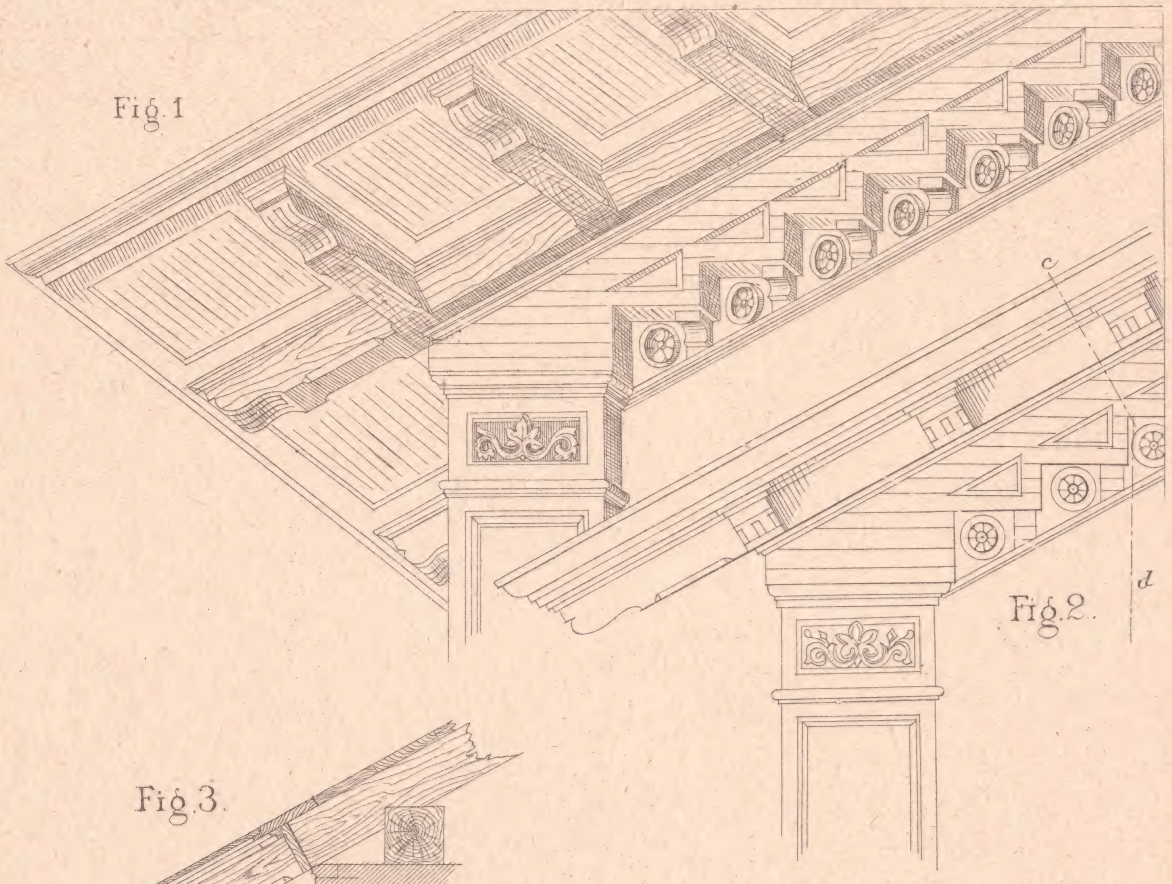
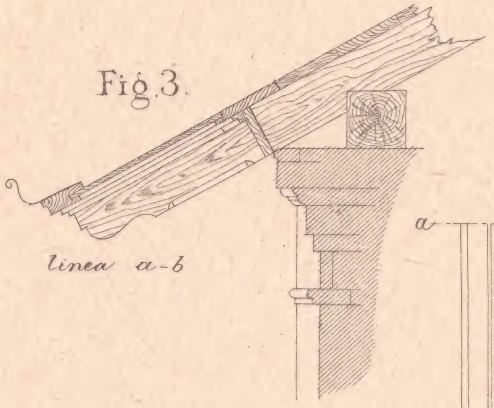
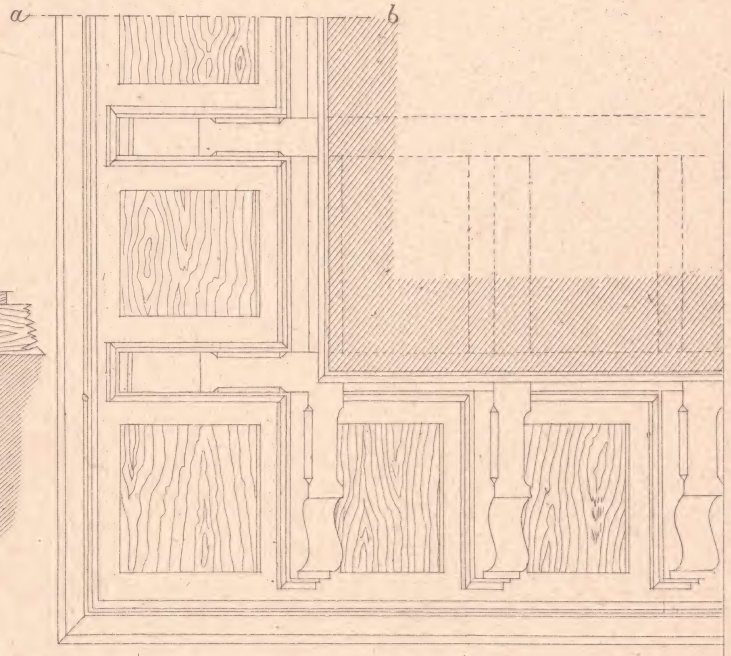


Fig. 2.

Fig. 3.



linea a-b



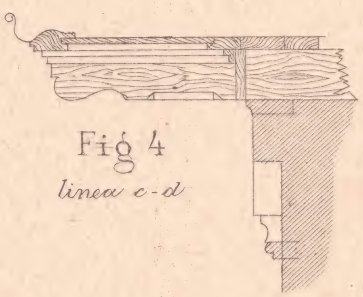
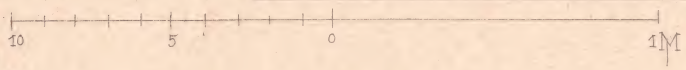


Fig 4

linea c-d



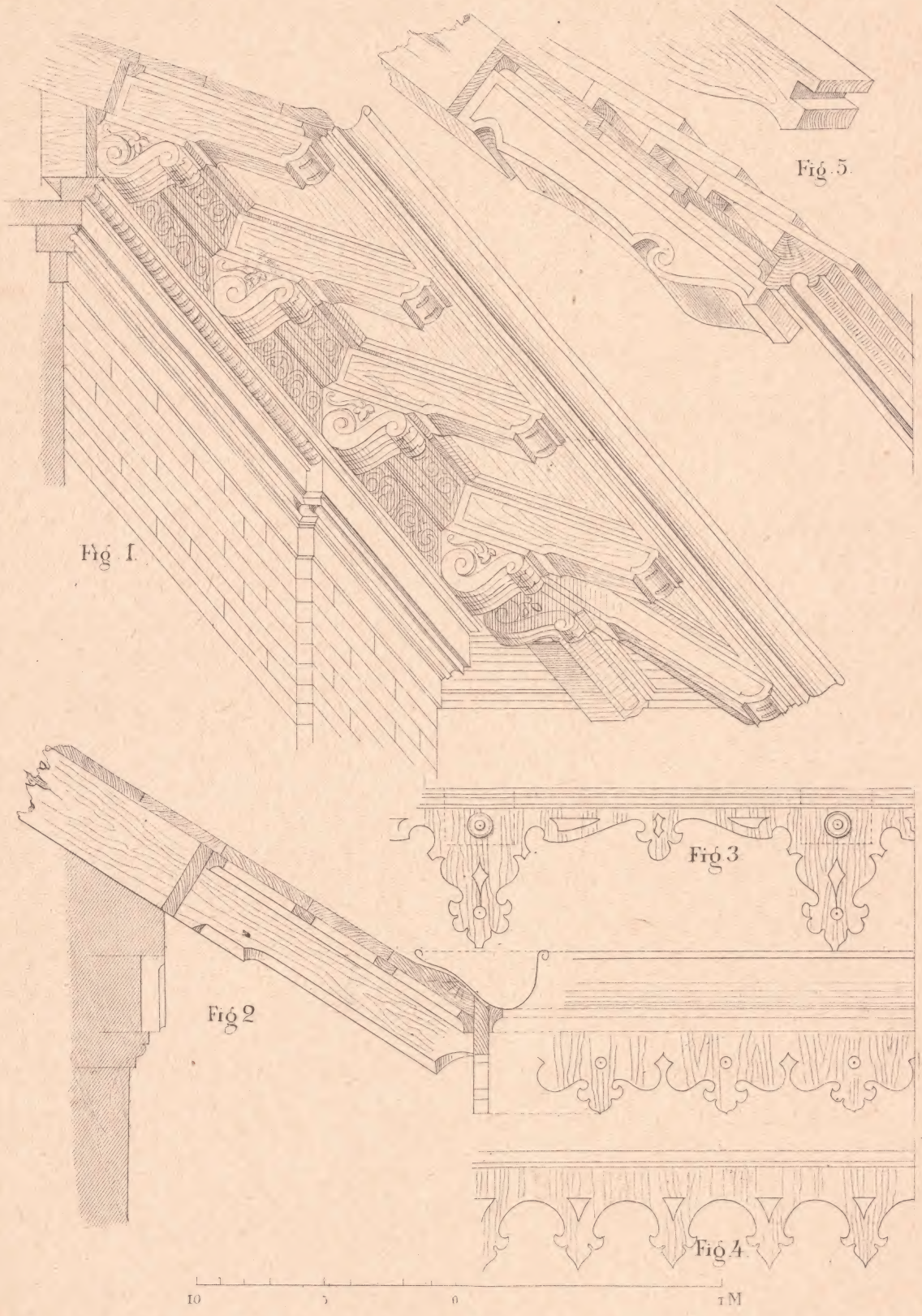
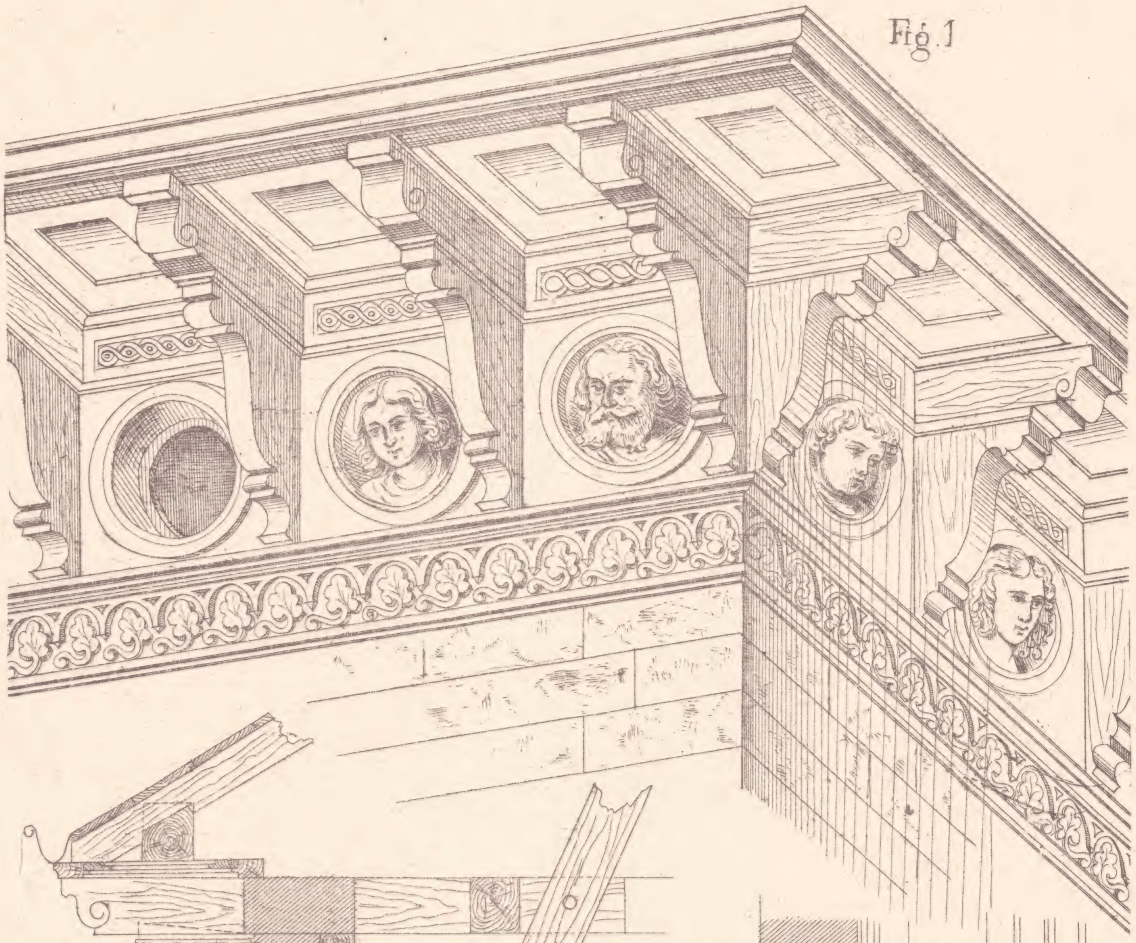


Fig. 5
Fig. 1
Fig 3
Fig 2
Fig 4
10
5
0
1 M

Fig. 1



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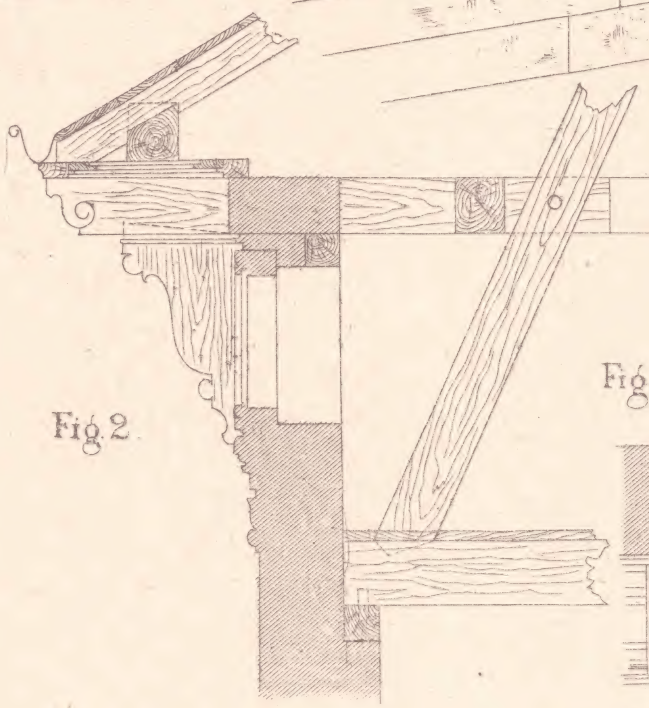
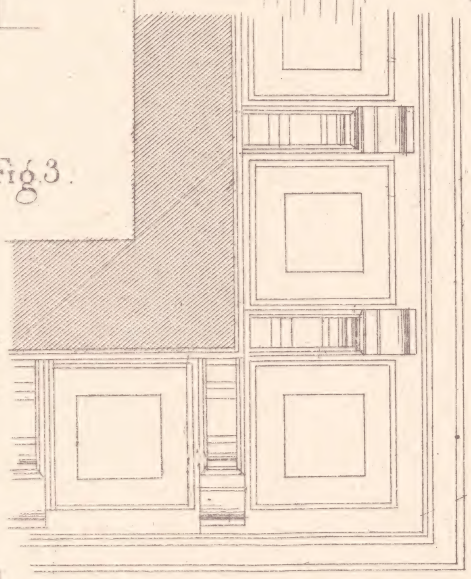
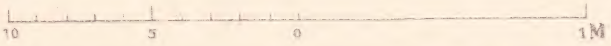


Fig. 3





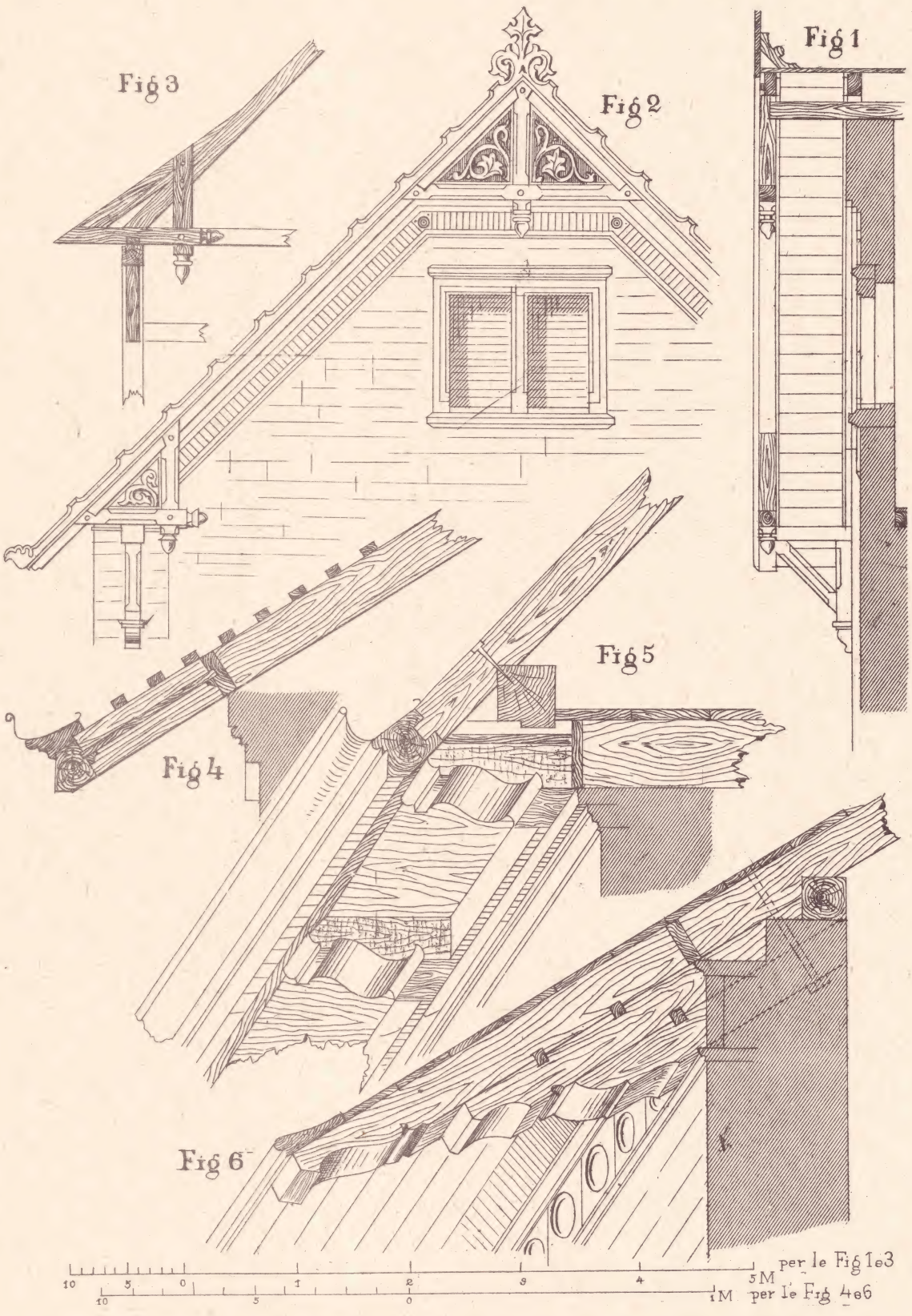
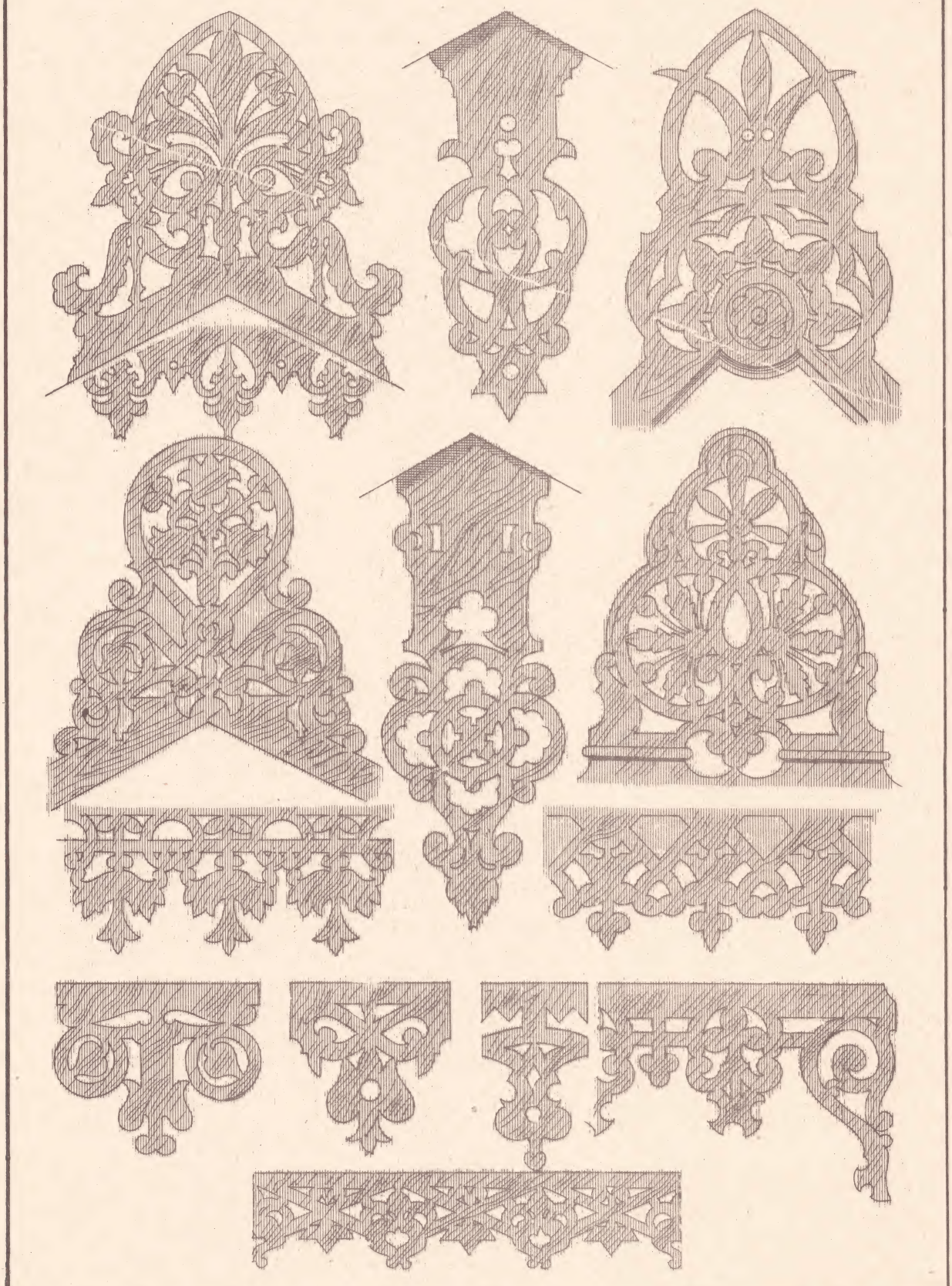


Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Fig 6
10 5 0 1 2 3 4 5M per le Fig 1 e 3
10 5 0 1M per le Fig 4 e 6



Tav. 80

Fig. 3.
Sezione c.d.

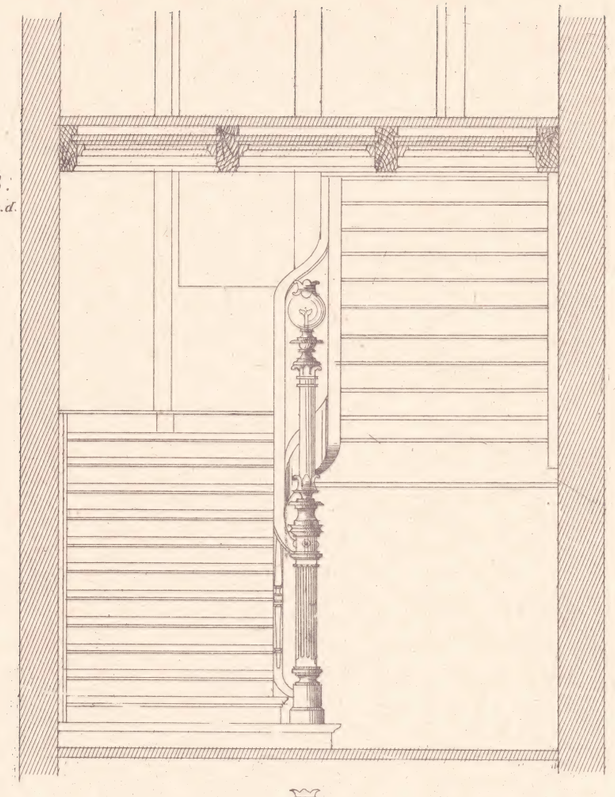
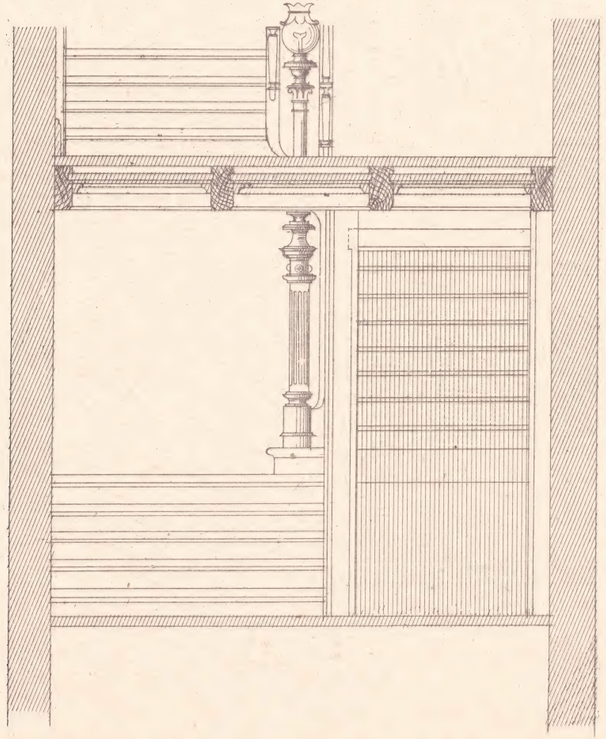
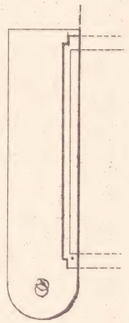


Fig. 4.
Sezione f g.





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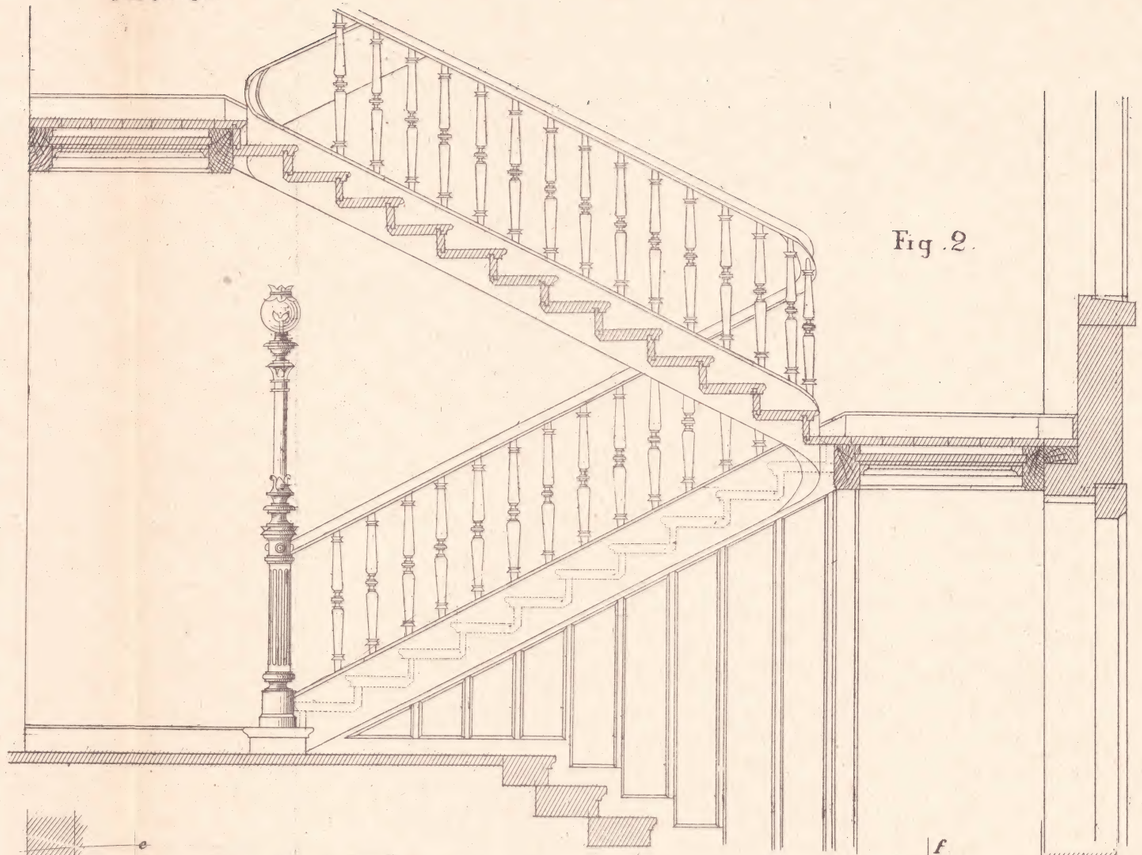


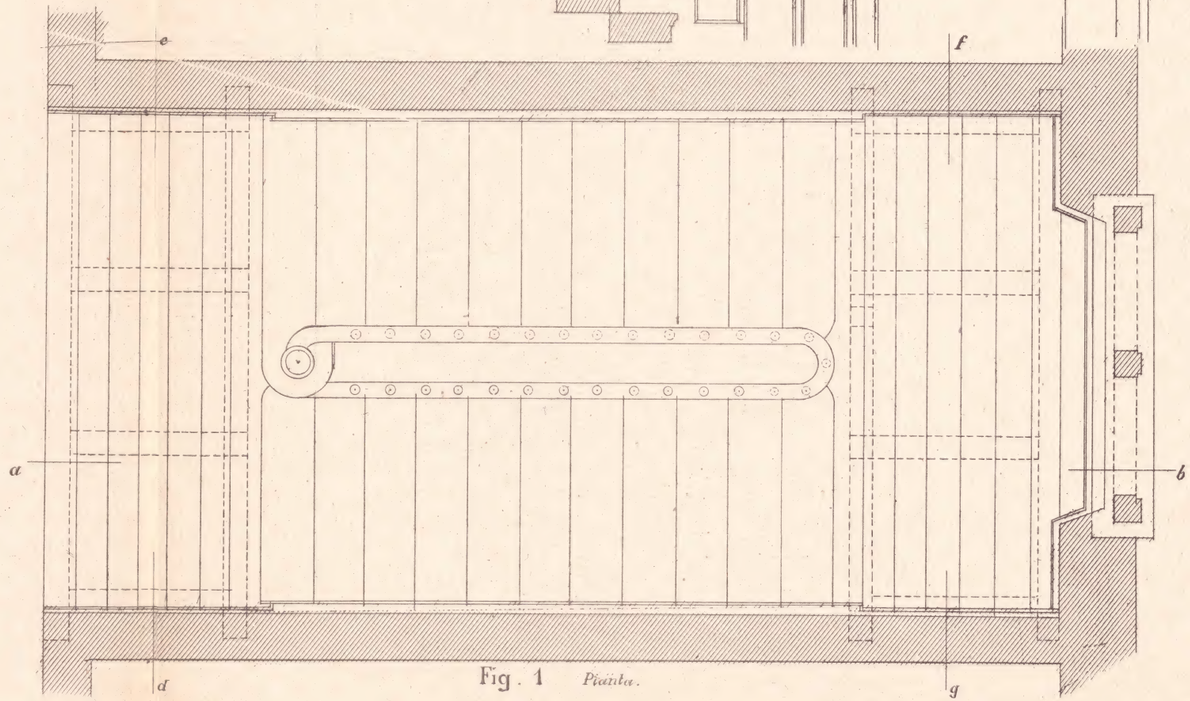


Fig. 1 *Pianta.*

Breymann II

Casa Edit.ce Dr F.sco Vallardi

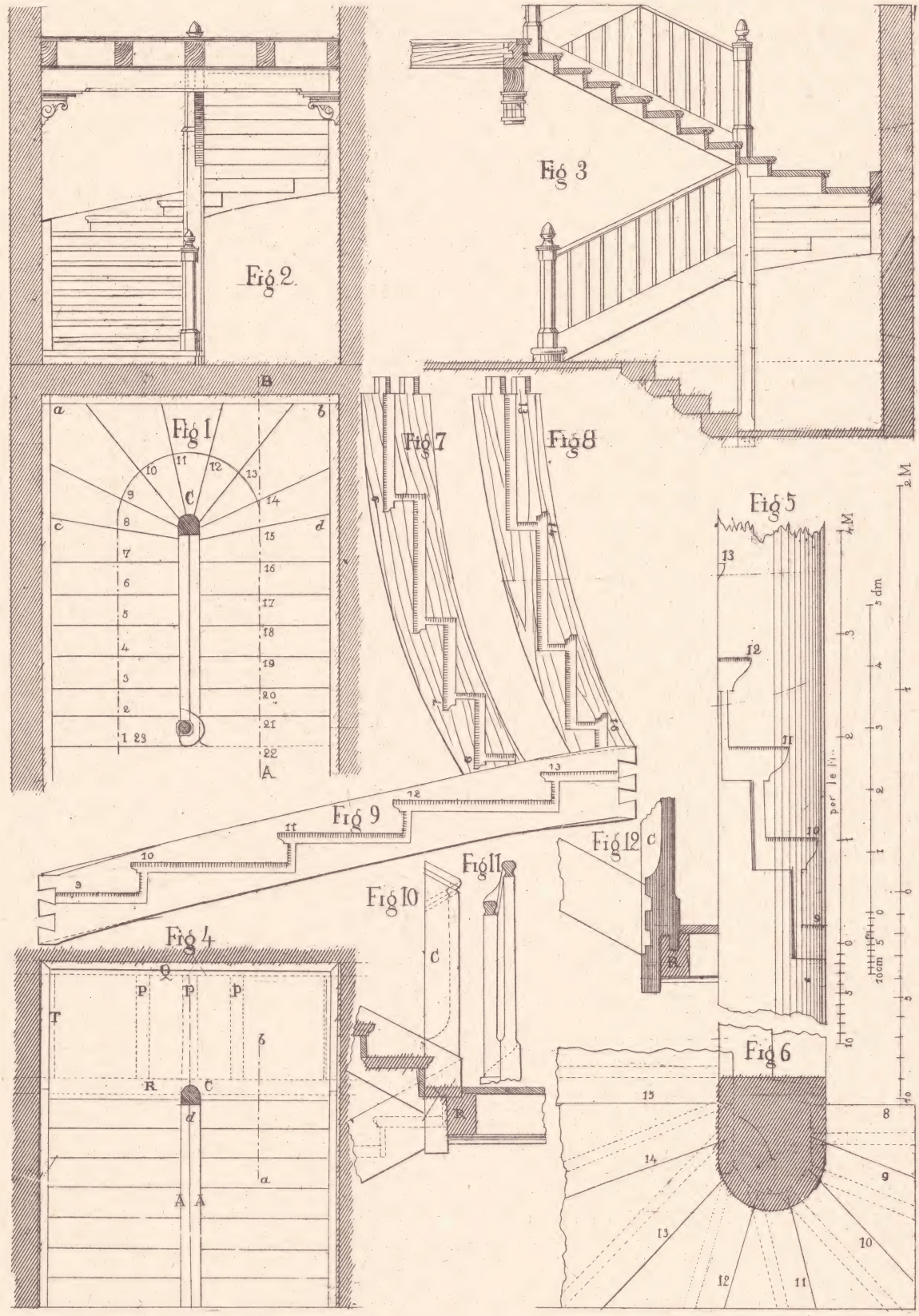
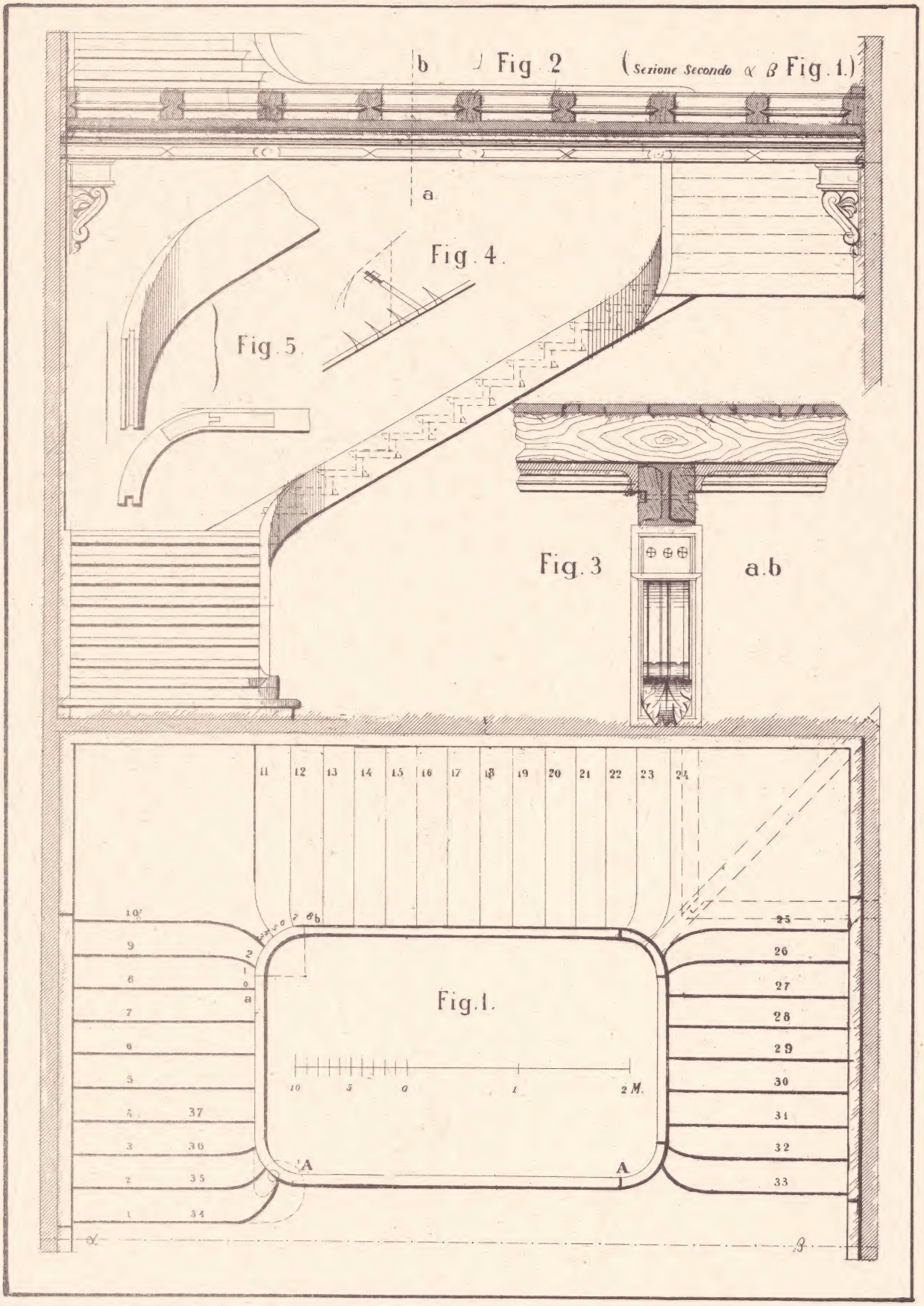


Fig 1
Fig 2
Fig 3
Fig 4
Fig 5
Fig 6
Fig 7
Fig 8
Fig 9
Fig 10
Fig 11
Fig 12
per le H.
5 dm
10cm


b
Fig. 2
(Sezione Secondo α β Fig. 1.)
a
Fig. 4.
Fig. 5.
Fig. 3
a.b
11 12 13 14 15 16 17 18 19 20 21 22 23 24
25
26
27
28
29
30
31
32
33
10
9
8
7
6
5
4
3
2
1
37
36
35
34
a b
Fig. 1.
10 5 0 1 2 M.
A
A
α
β

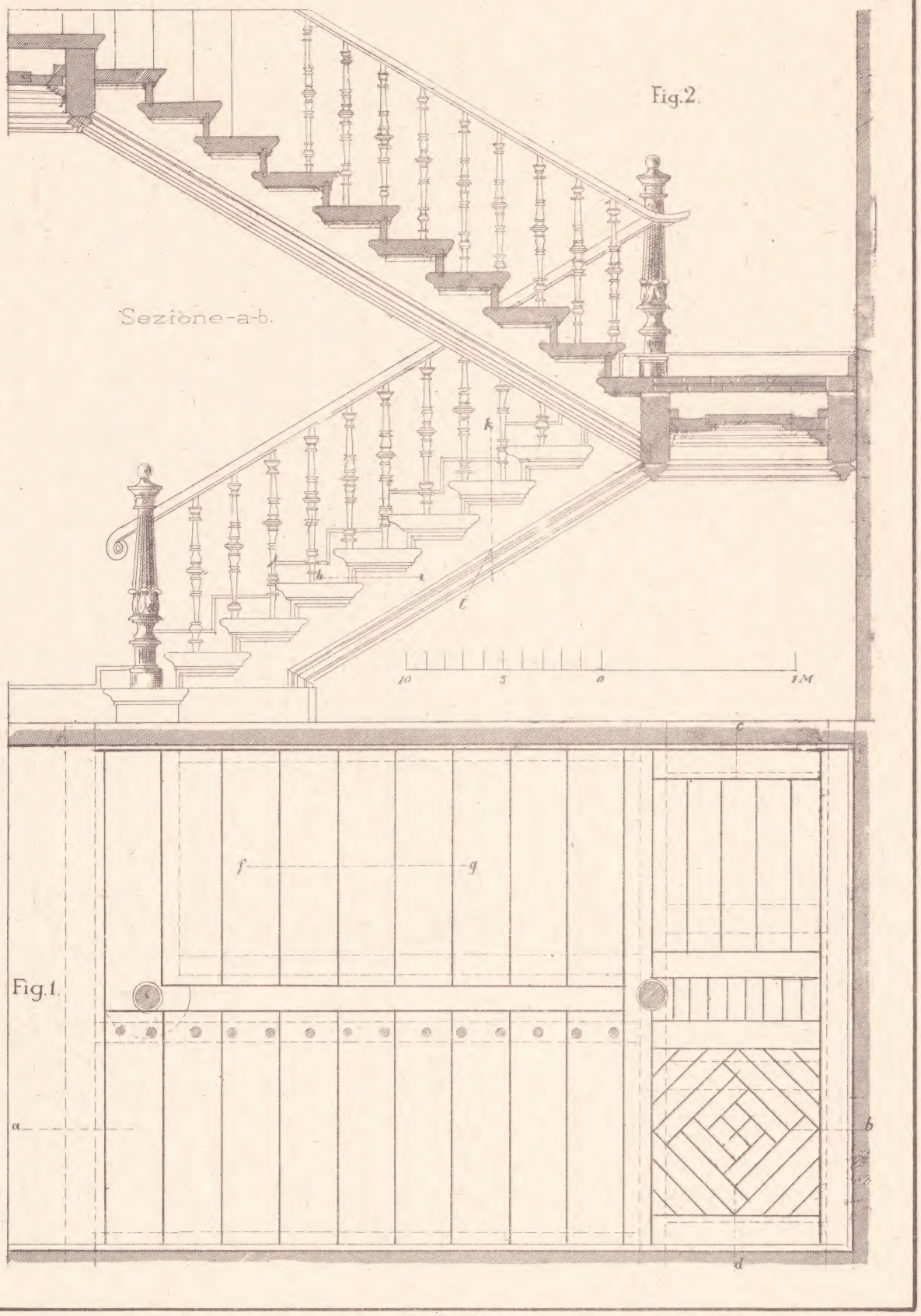
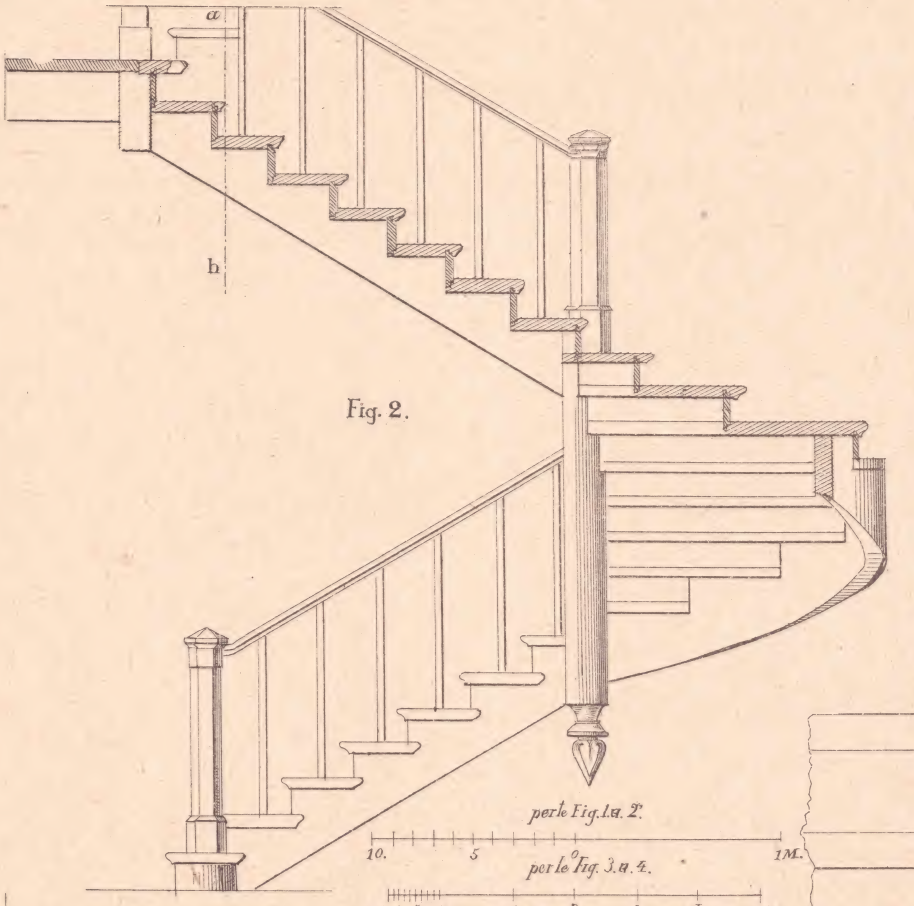


Fig.2.
Sezione-a-b.
k
h
i
l
10
5
0
1M
e
f
g
Fig.1.
a
b
d



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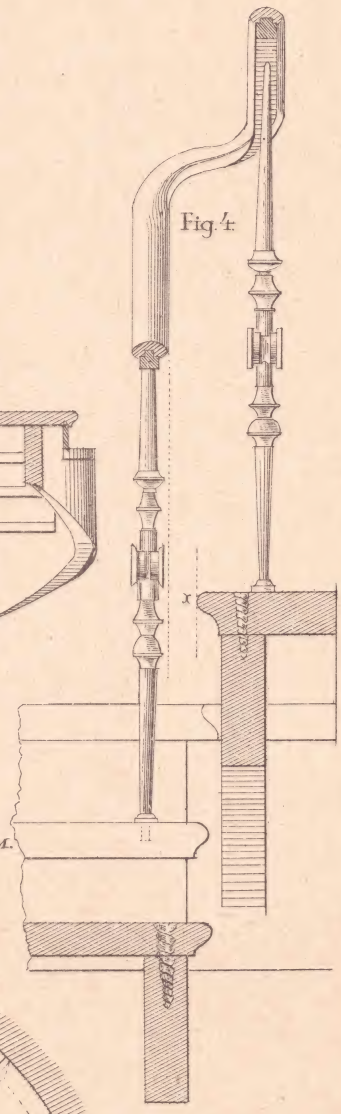


Fig. 4.

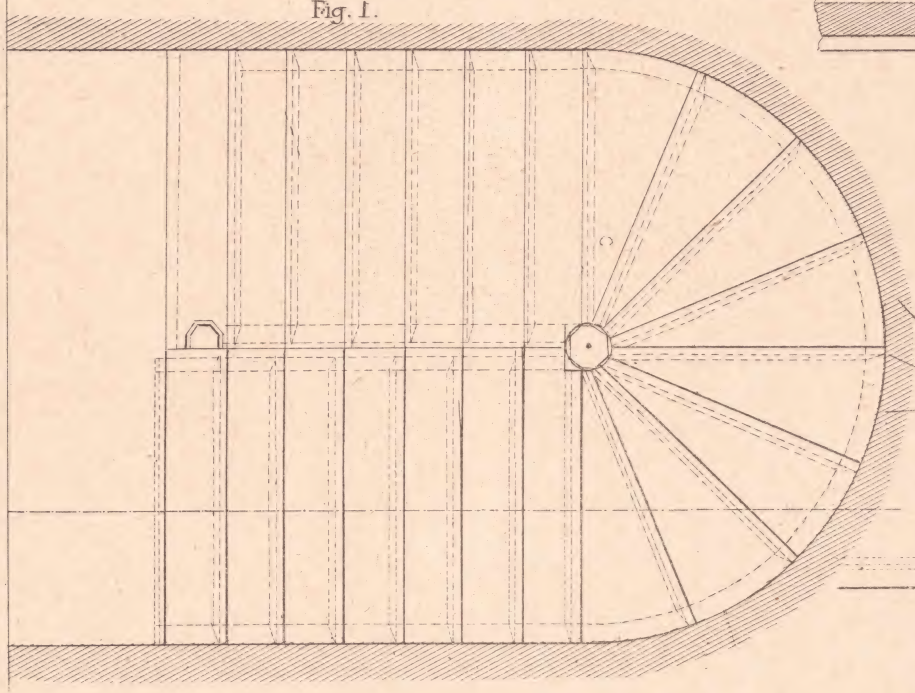
per le Fig. 1 a. 2.

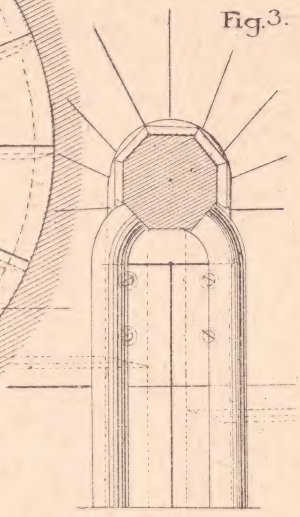
10. 5 0 1M.

per le Fig. 3. a. 4.

10 dm. 5 0 1 2 3 4 5 dm.

Fig. 1.





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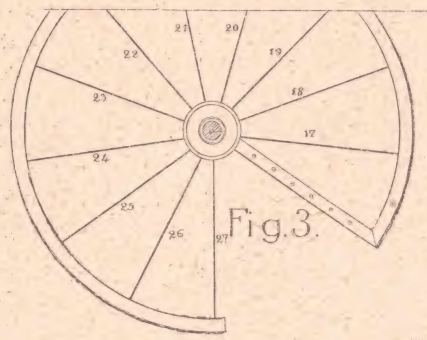

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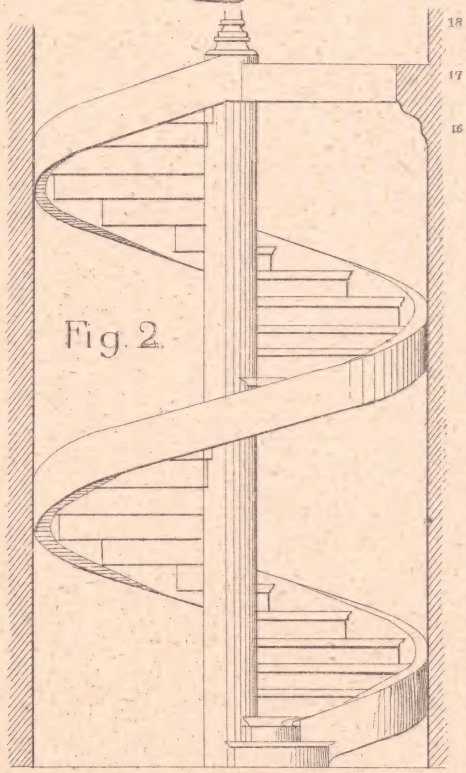

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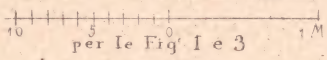
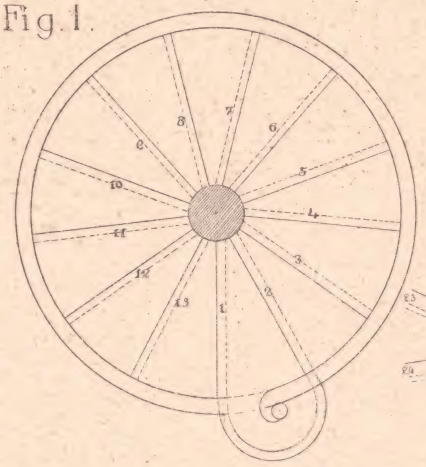


per le Fig.i 1 e 3

Fig. 1.



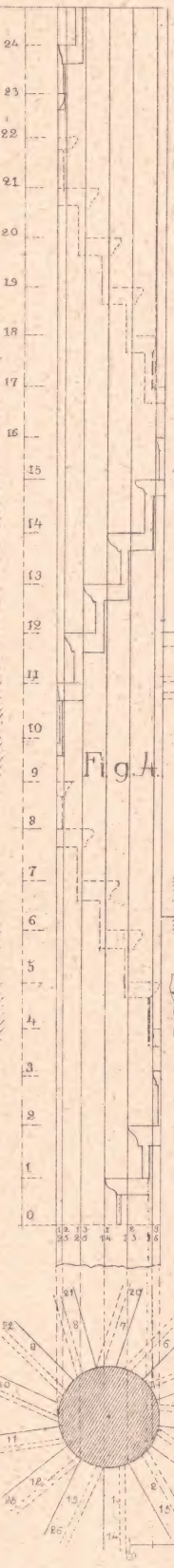
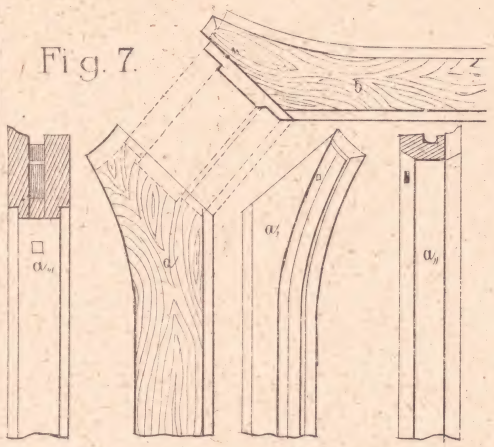


Fig. 4.



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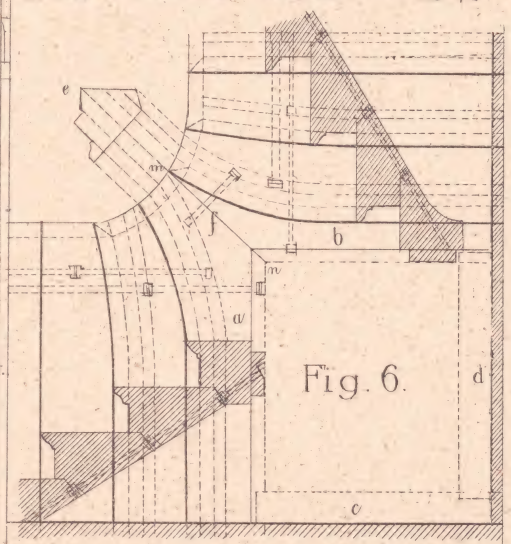

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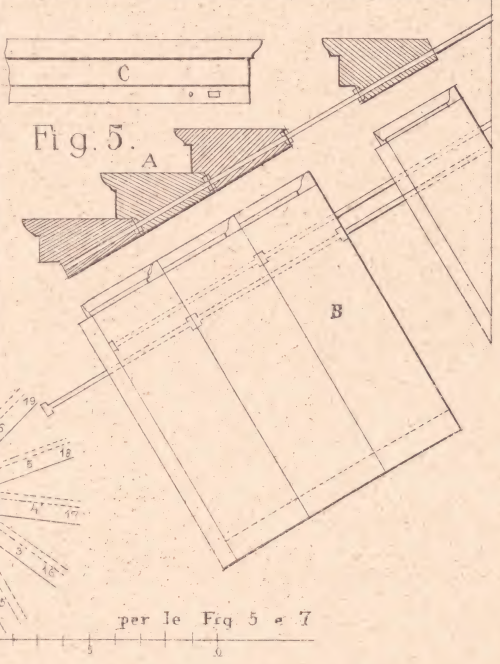
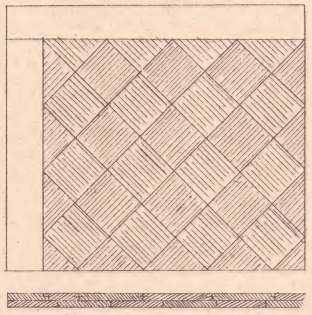


Fig. 5.

per le Fig 5 e 7

Fig. 1



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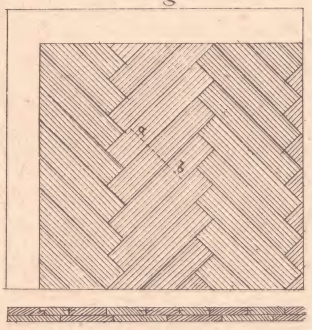

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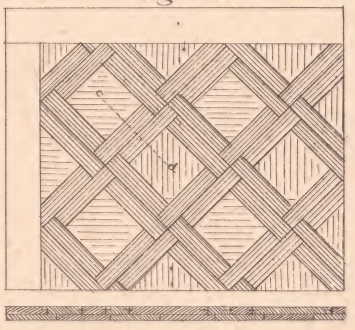

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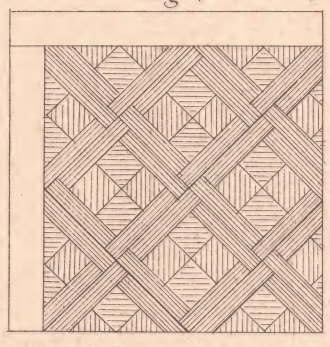

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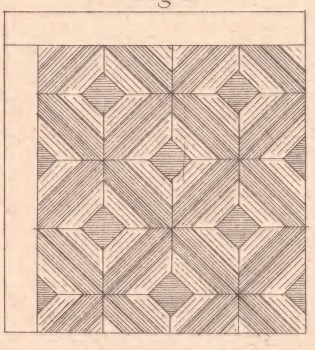

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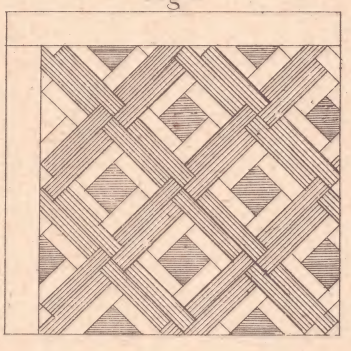

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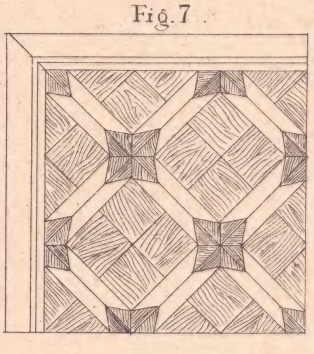

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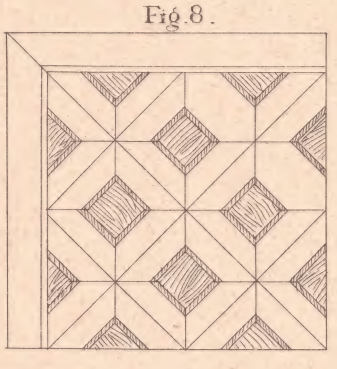

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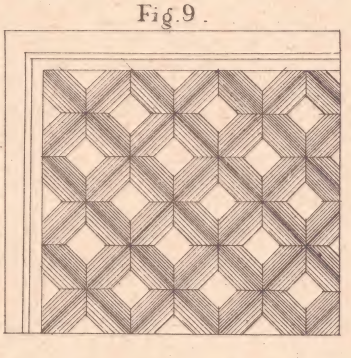

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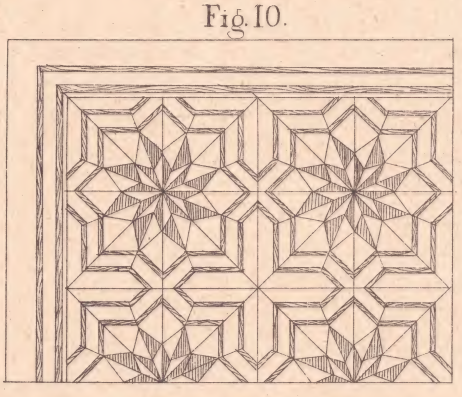

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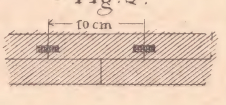

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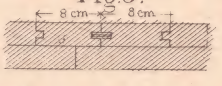

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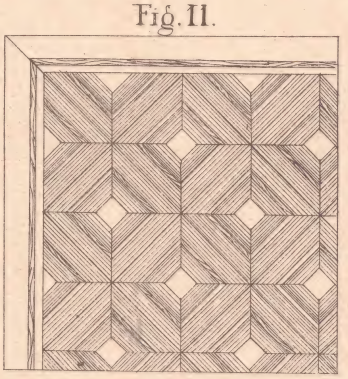

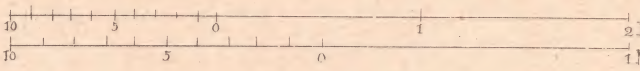

2 M. per le Fig. I, 9 e II
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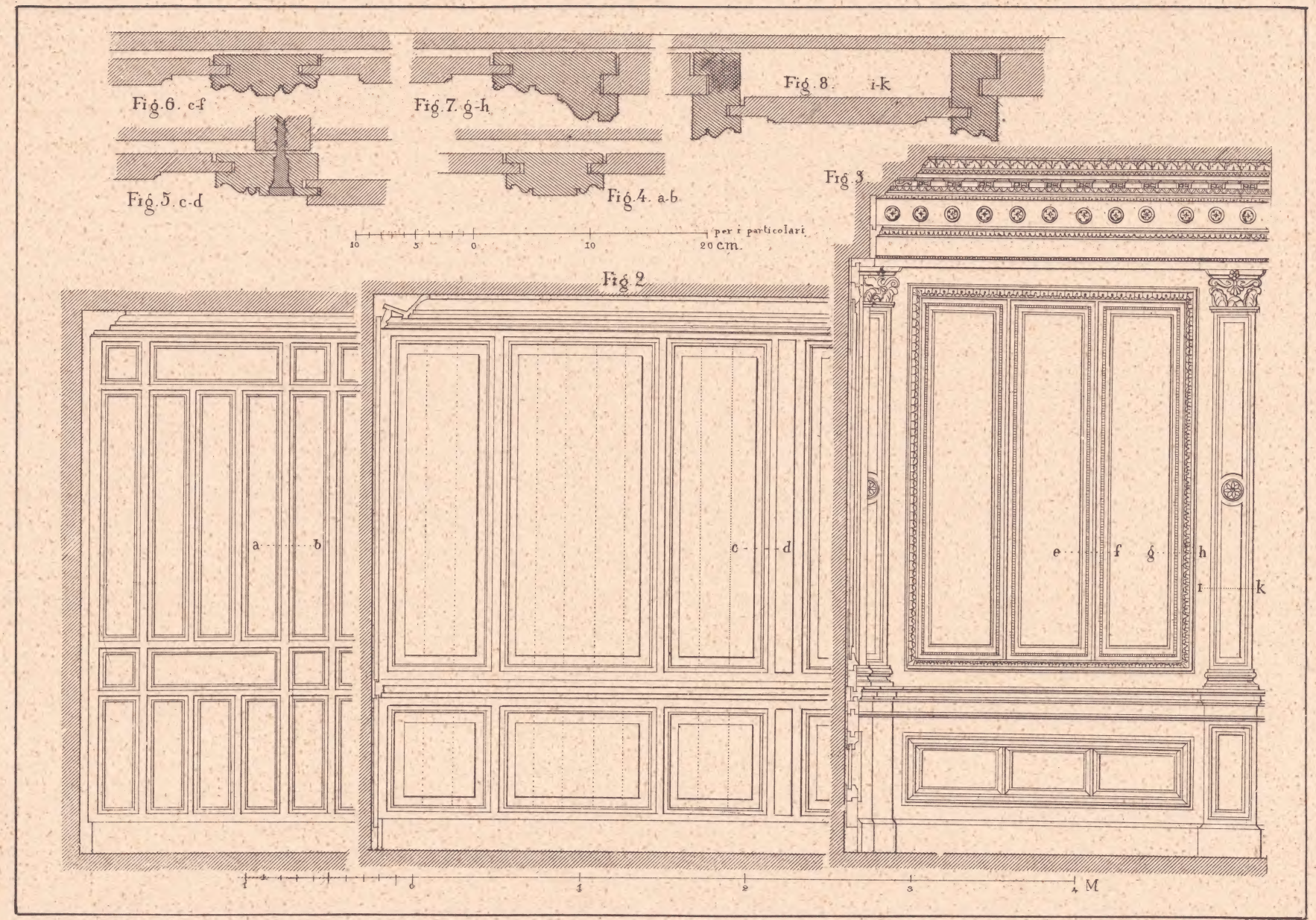

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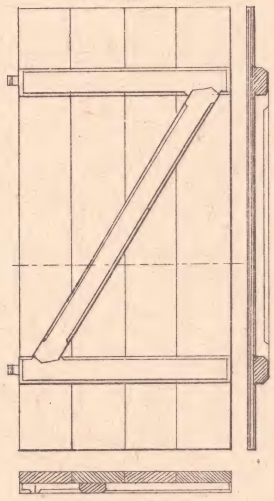

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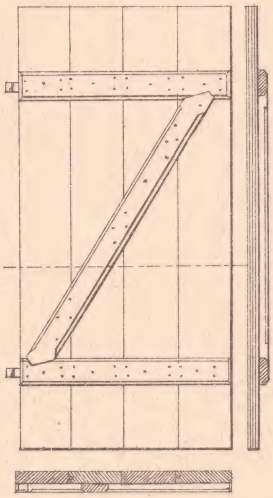

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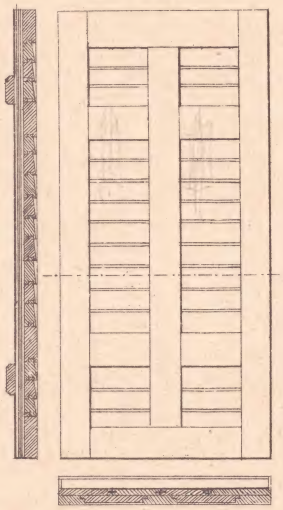

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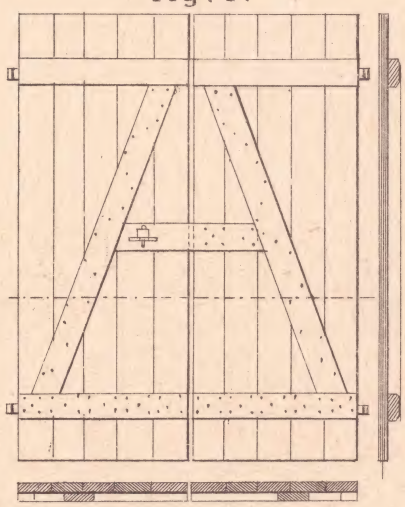

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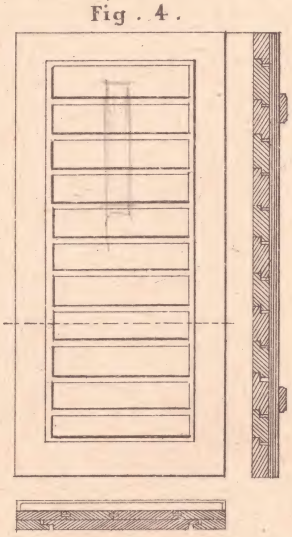

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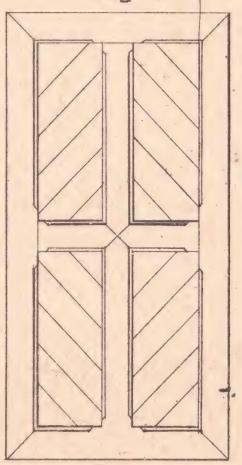

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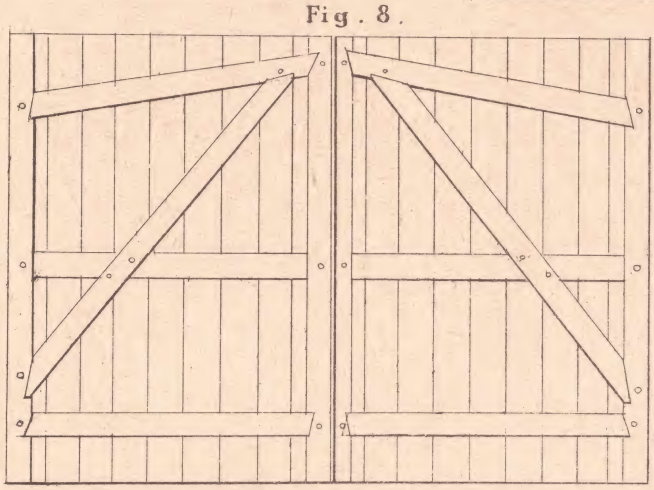

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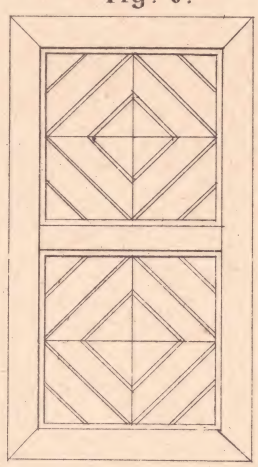

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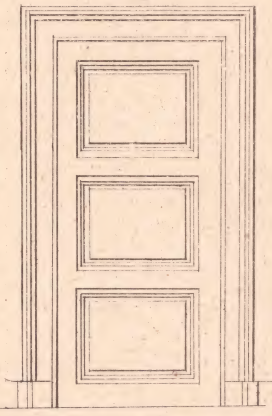

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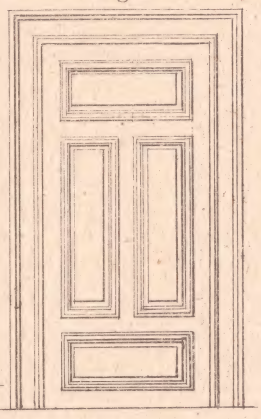

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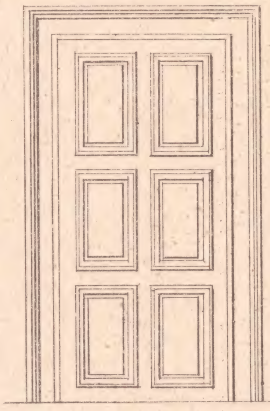

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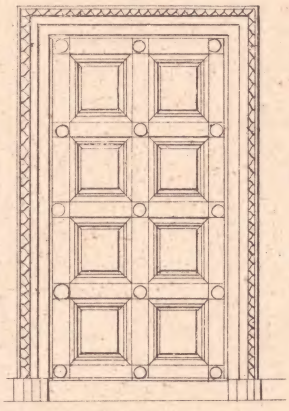

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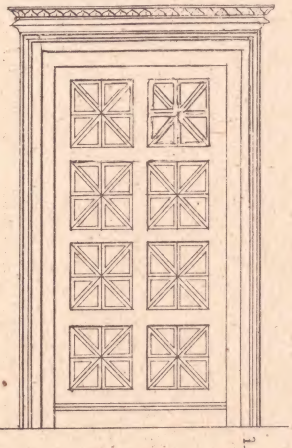

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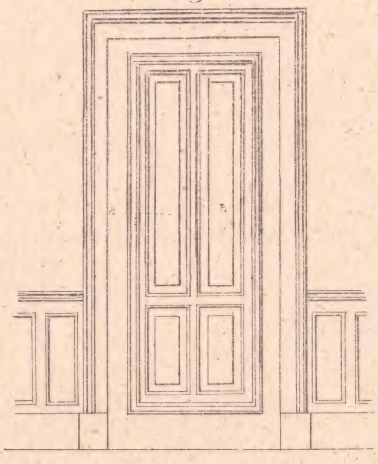

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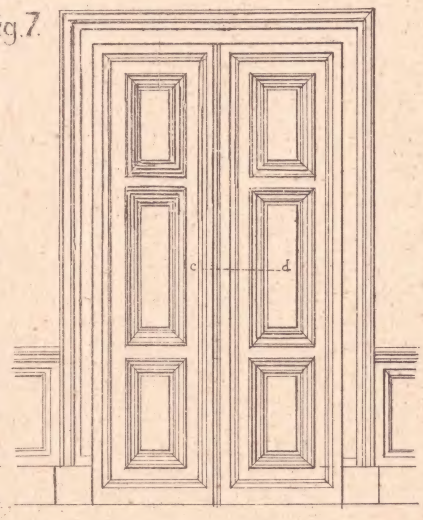

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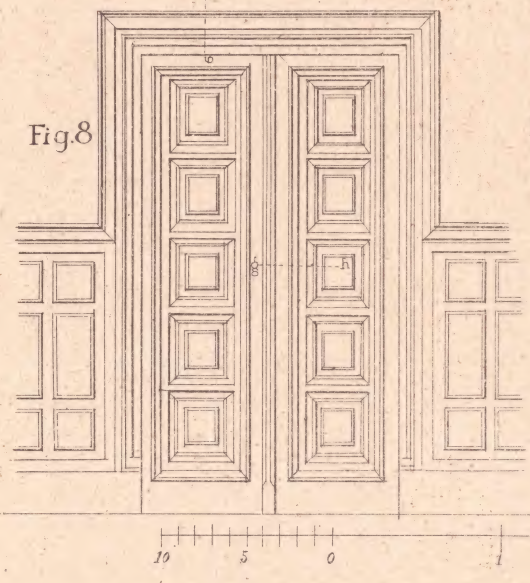

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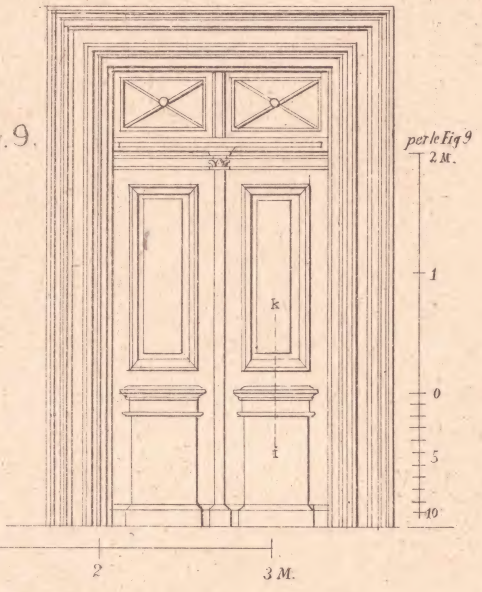

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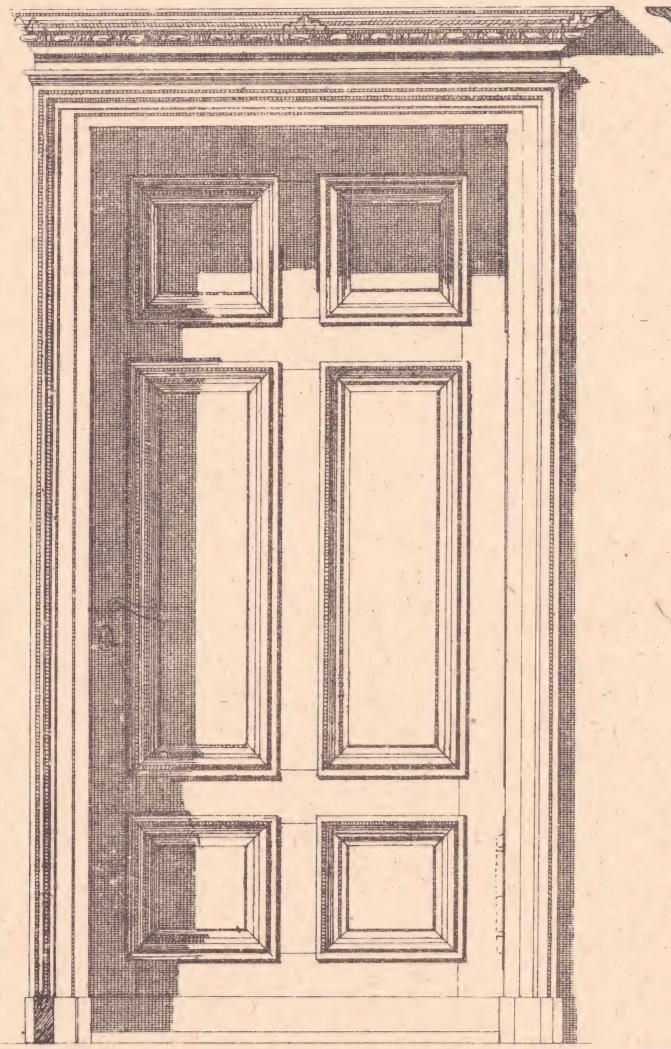

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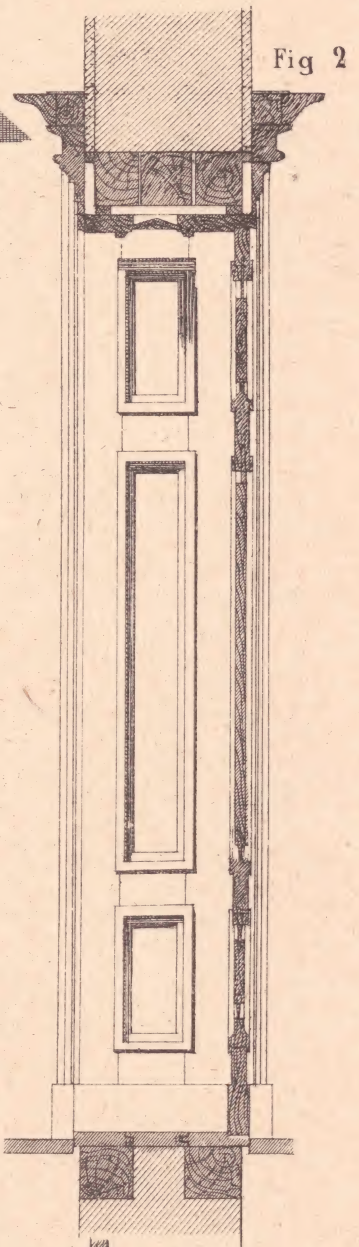

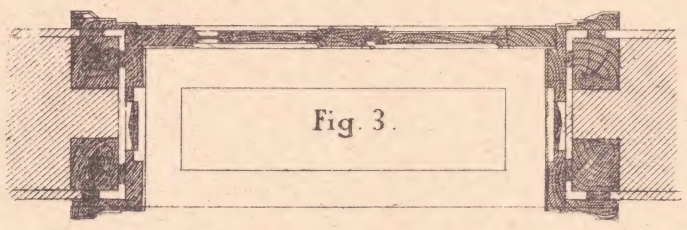

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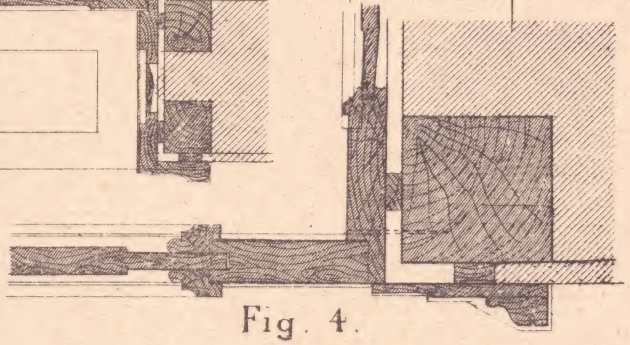

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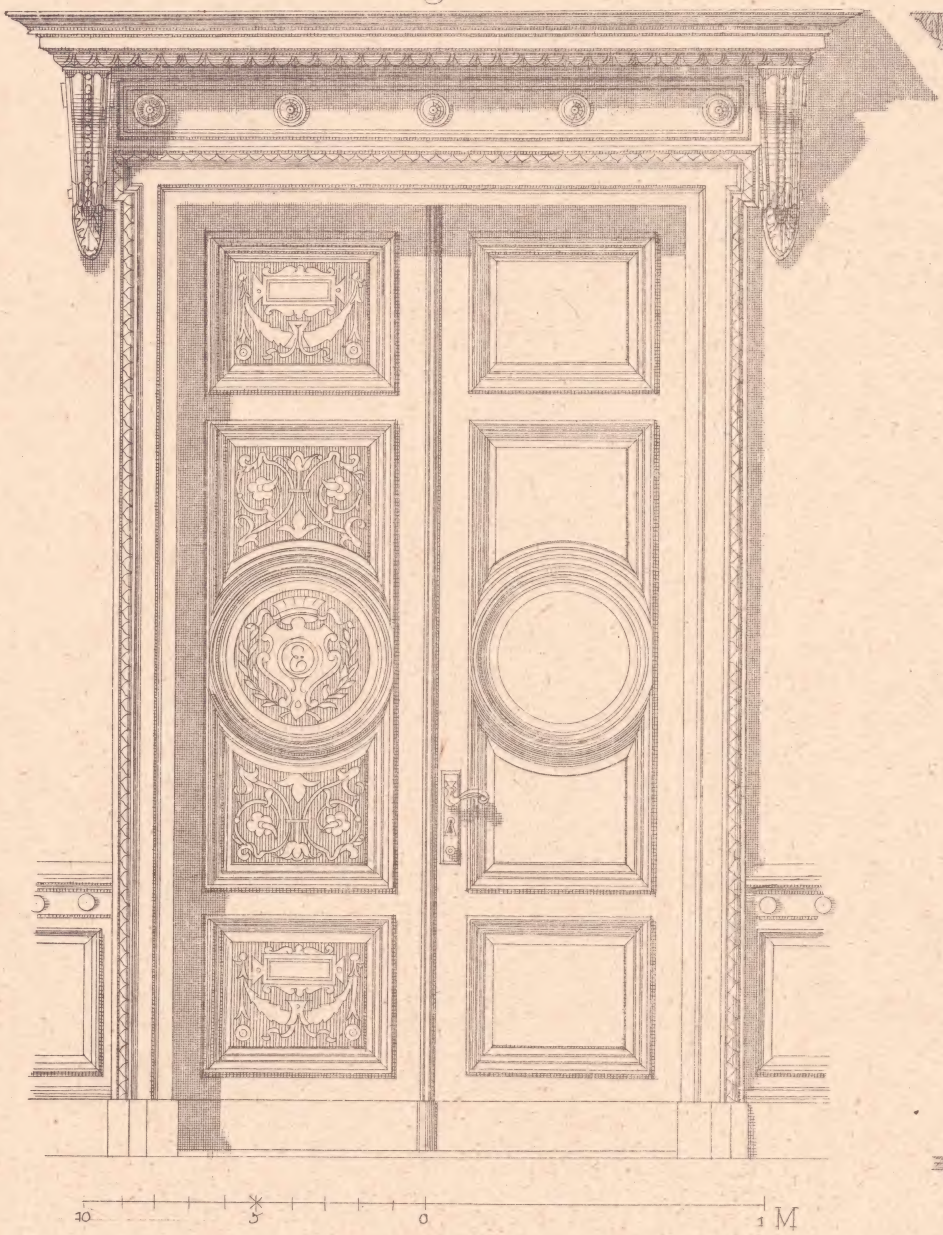

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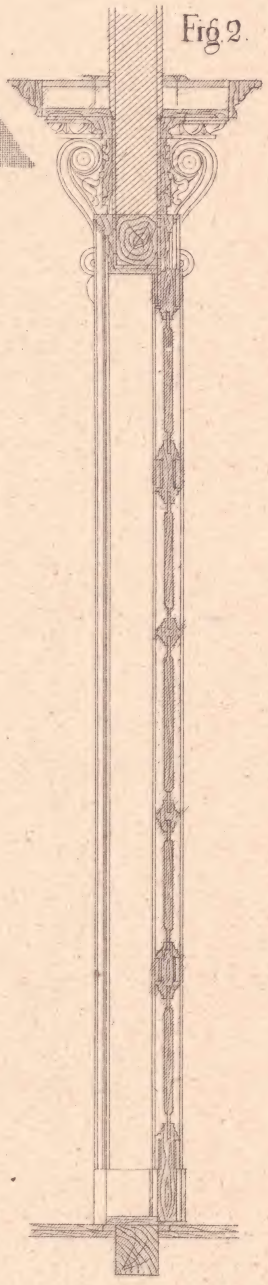

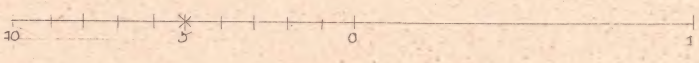

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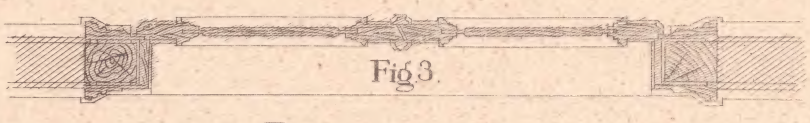

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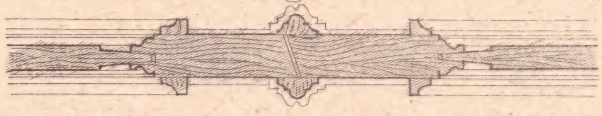

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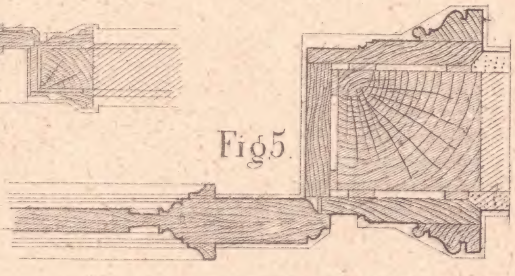
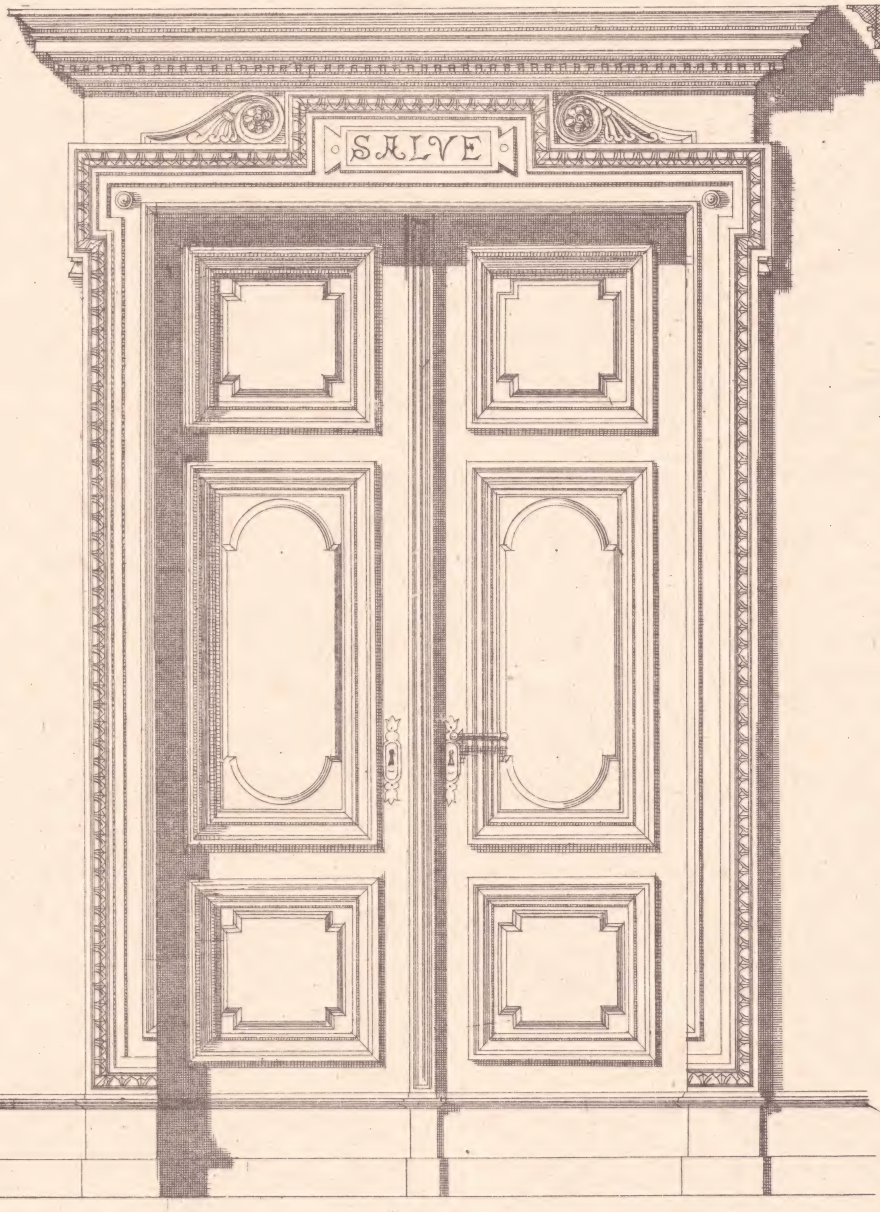


Fig. 1



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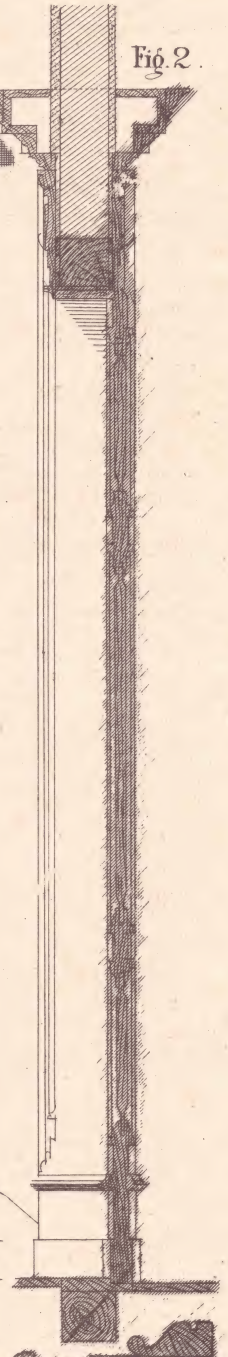

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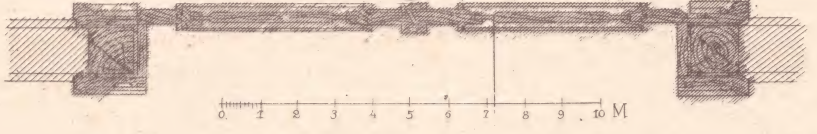
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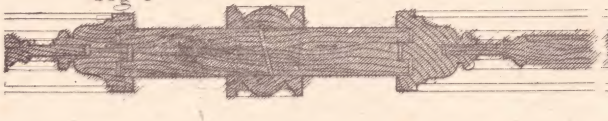

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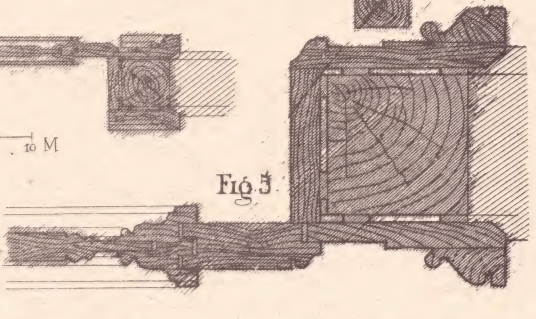

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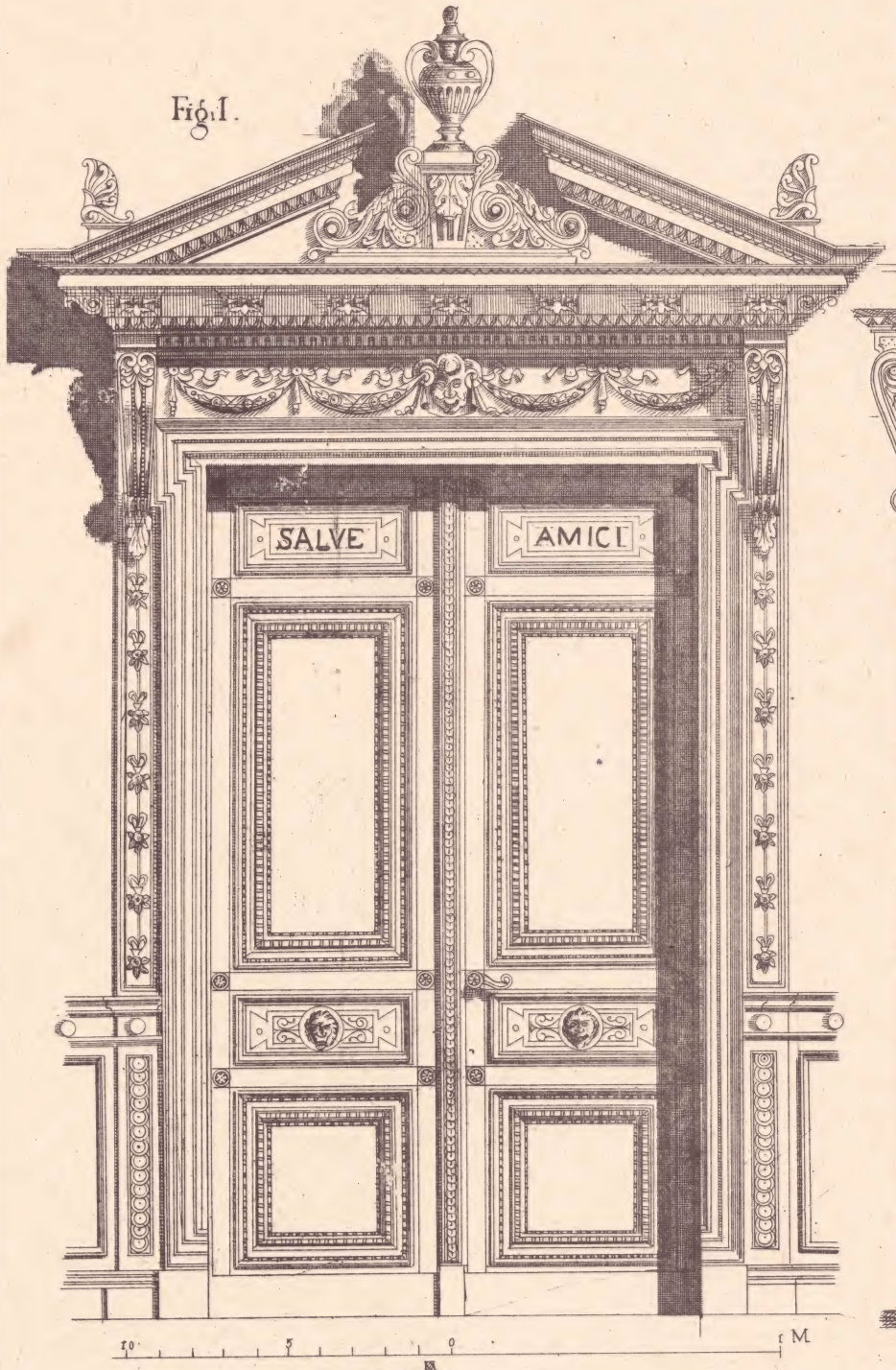

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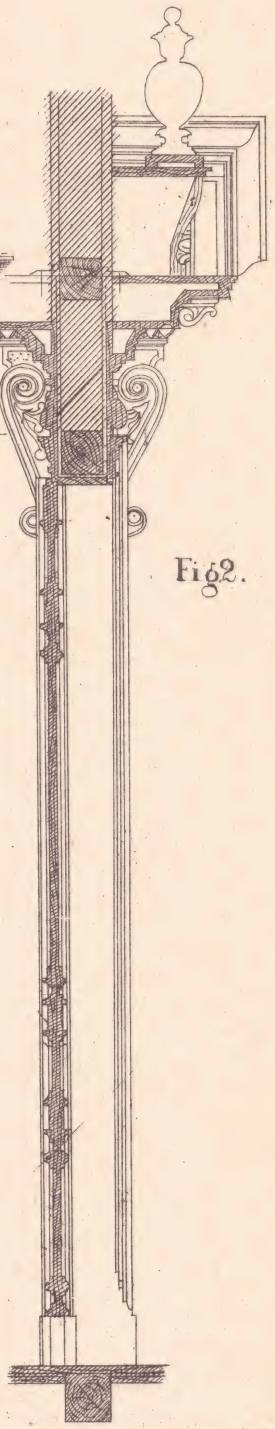
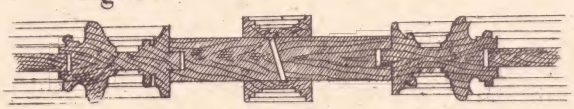


Fig. 5.

Fig. 4.



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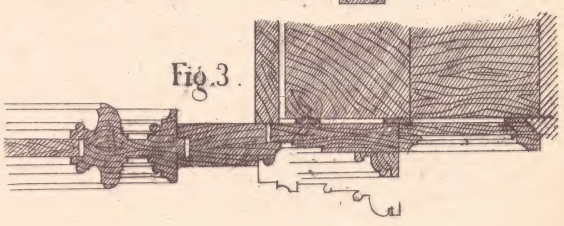

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Fig. 5.

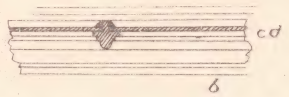



Fig. 6.

Fig. 1

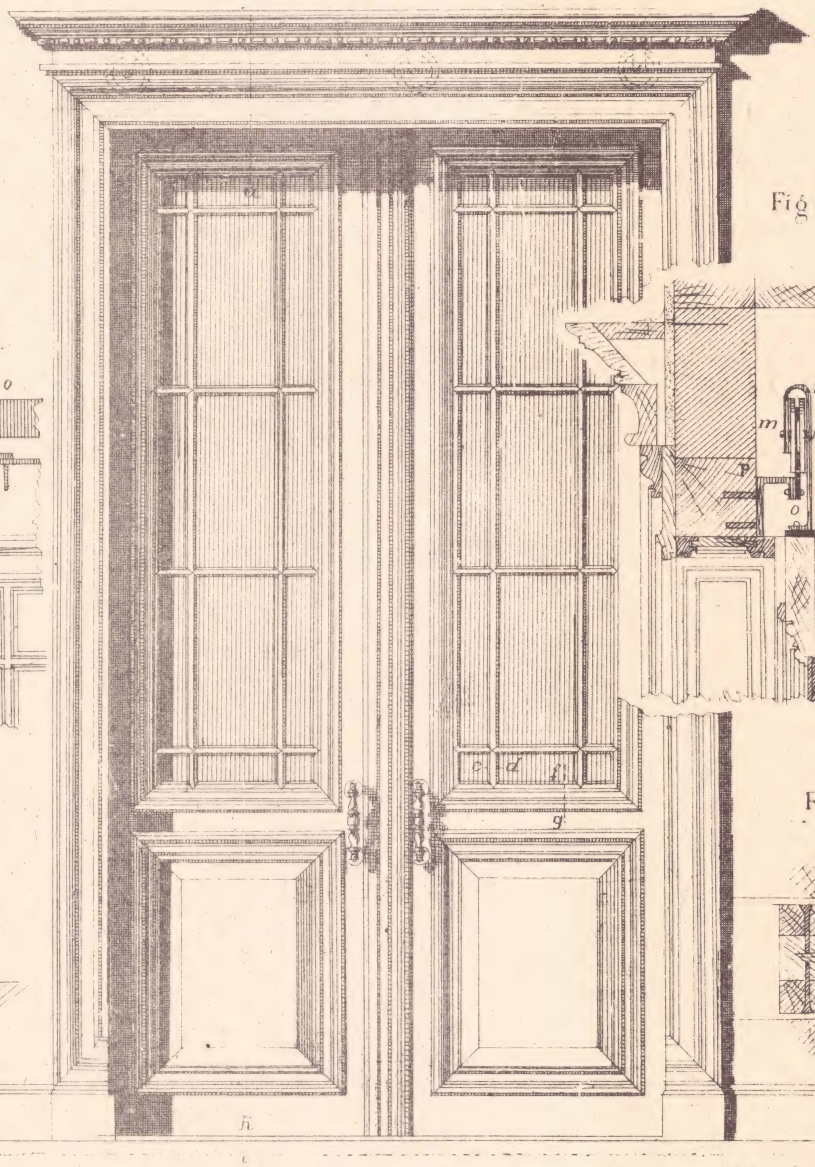
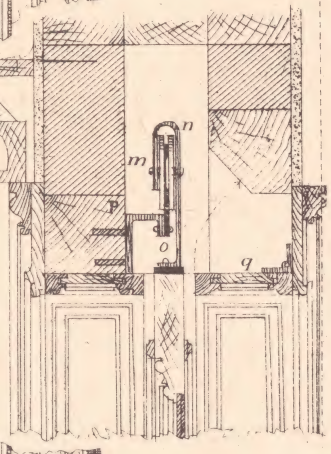


Fig. 4 a-b



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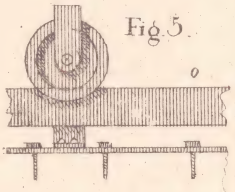
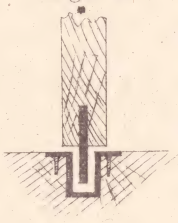


Fig. 7 h-i



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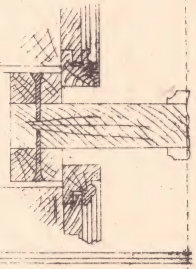
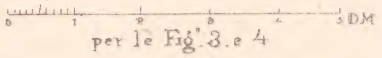


per le Fig.ⁱ 1 e 2



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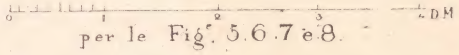

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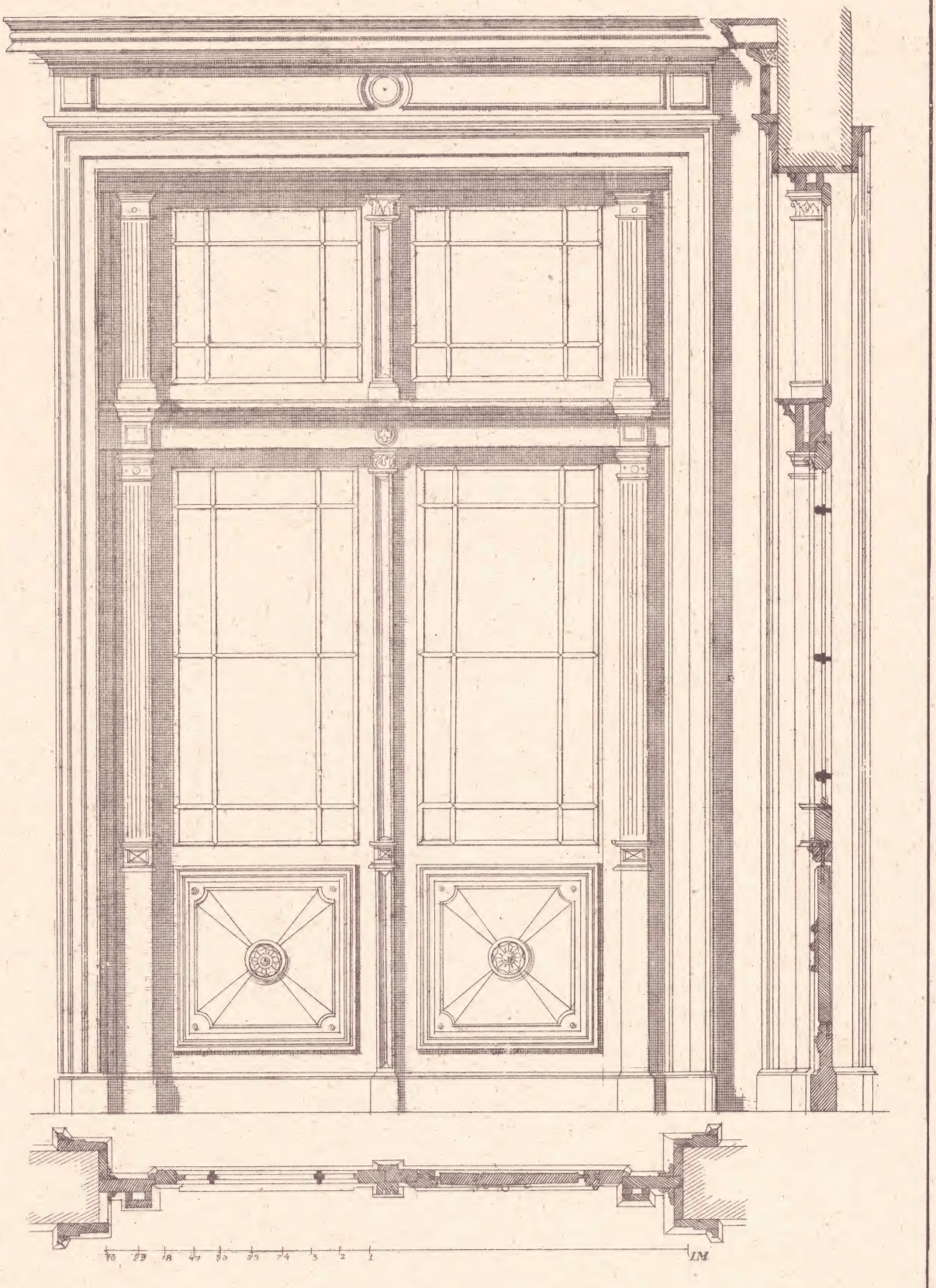

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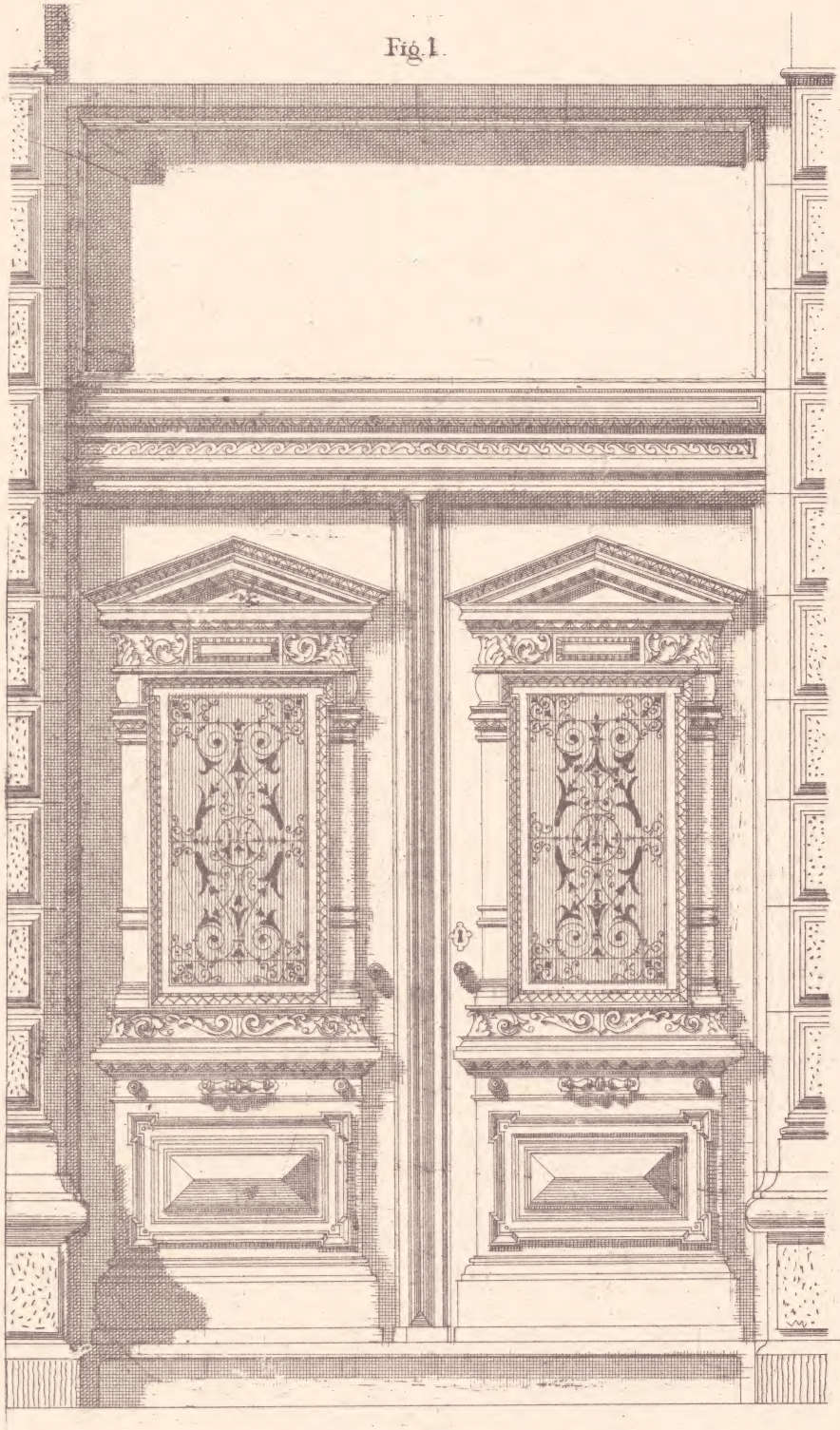
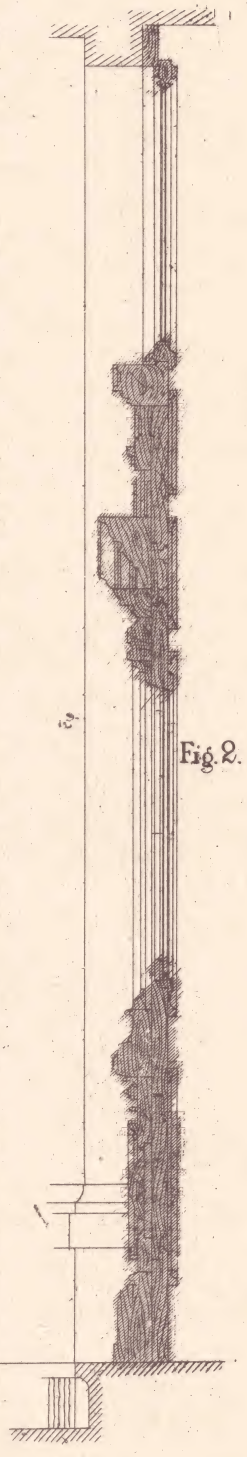
Fig. 1.





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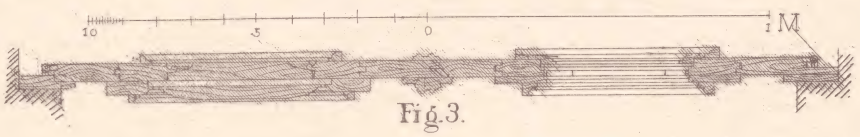


Fig. 3.

Fig. 4

Fig. 3

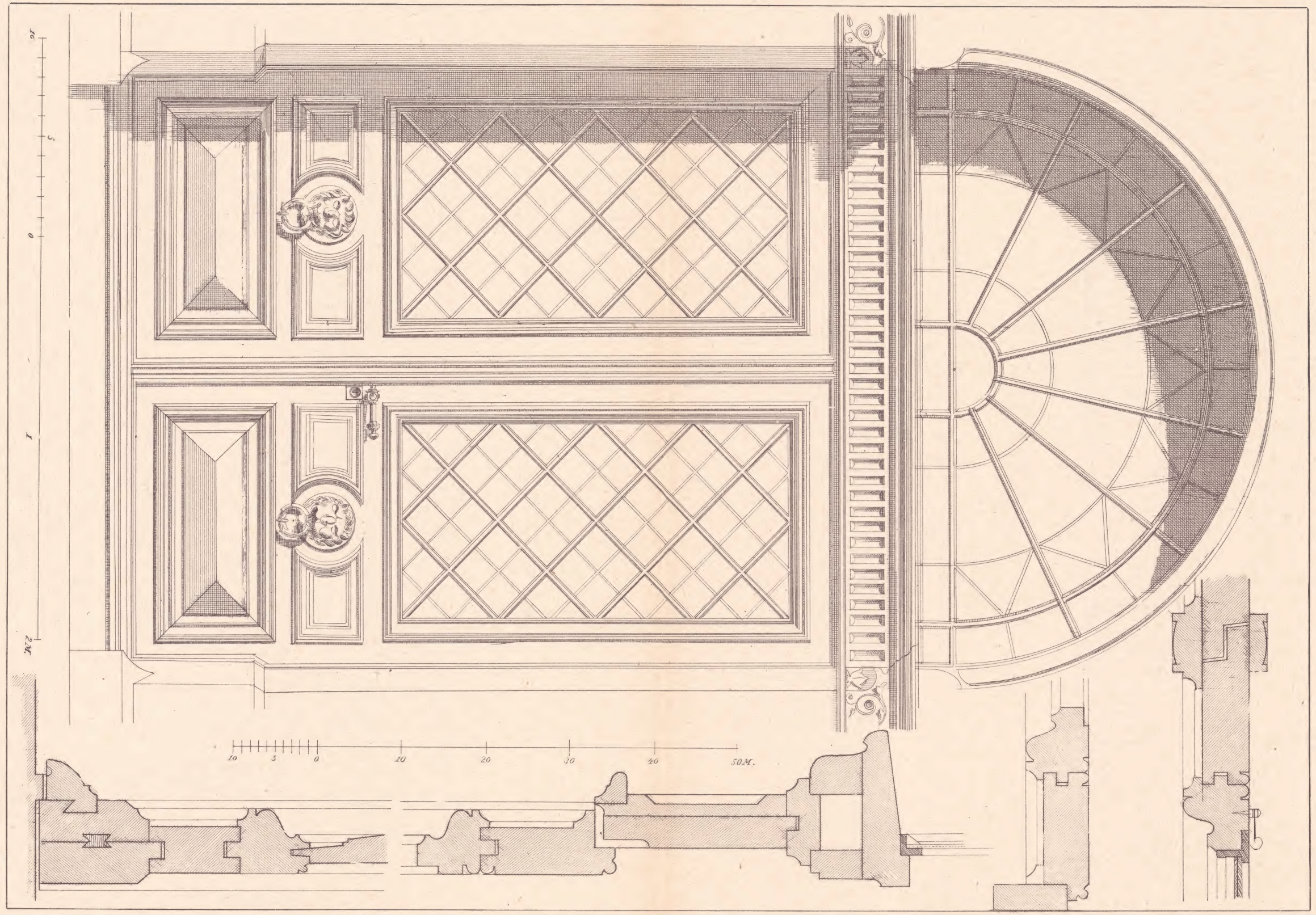
Fig. 1

Fig. 7

Fig. 6

Fig. 2

Fig. 5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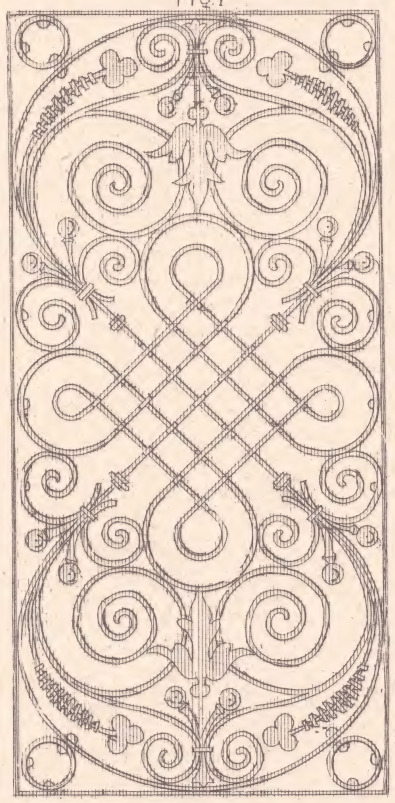
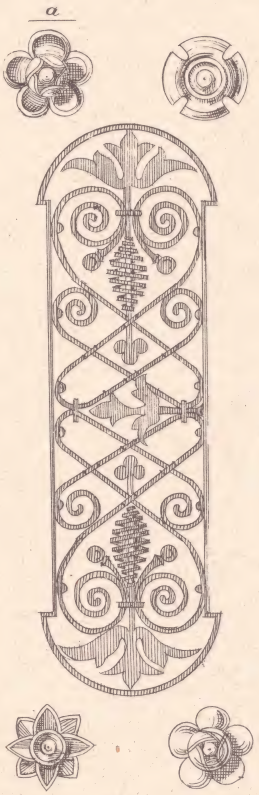
2M.
10 5 0 10 20 30 40 50M.

Fig.1





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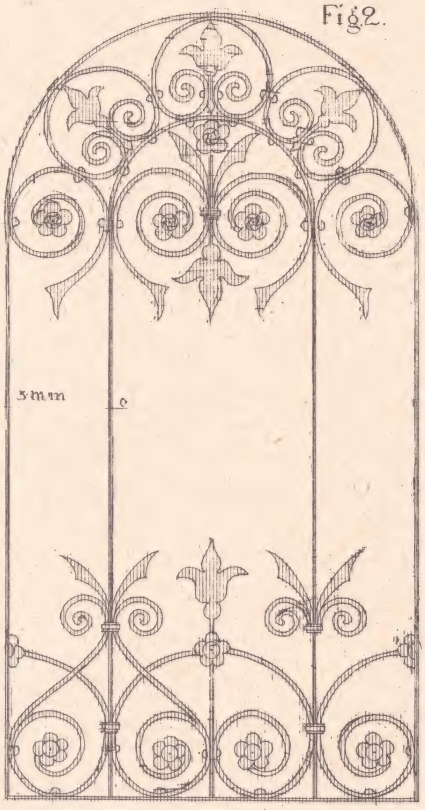

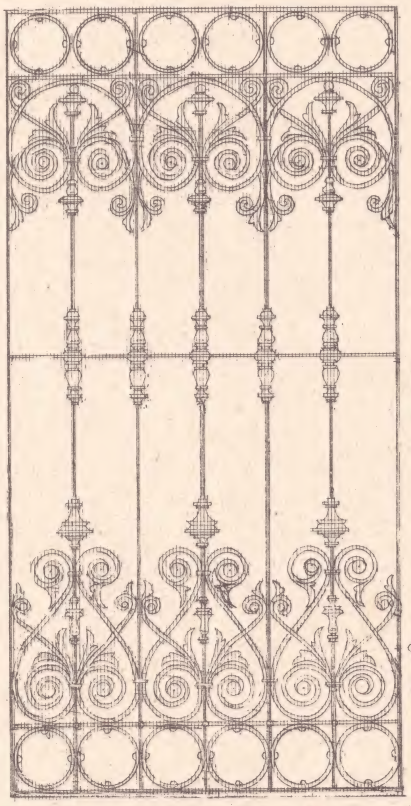

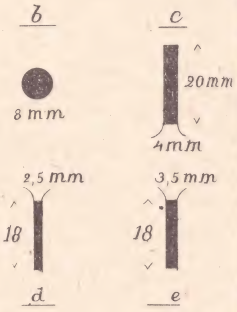

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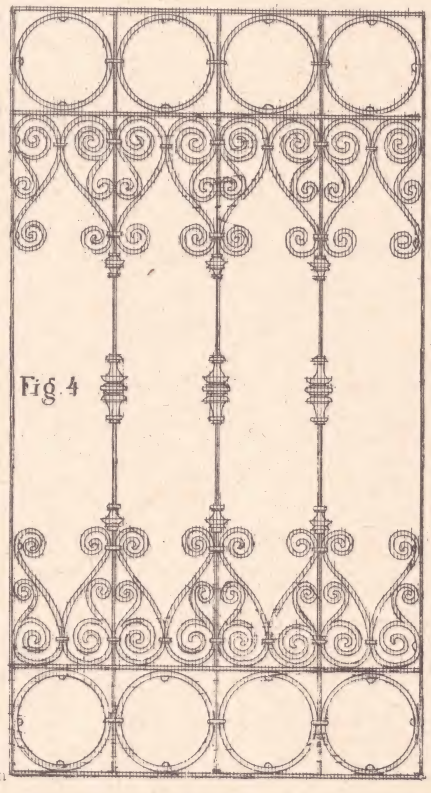

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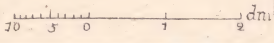

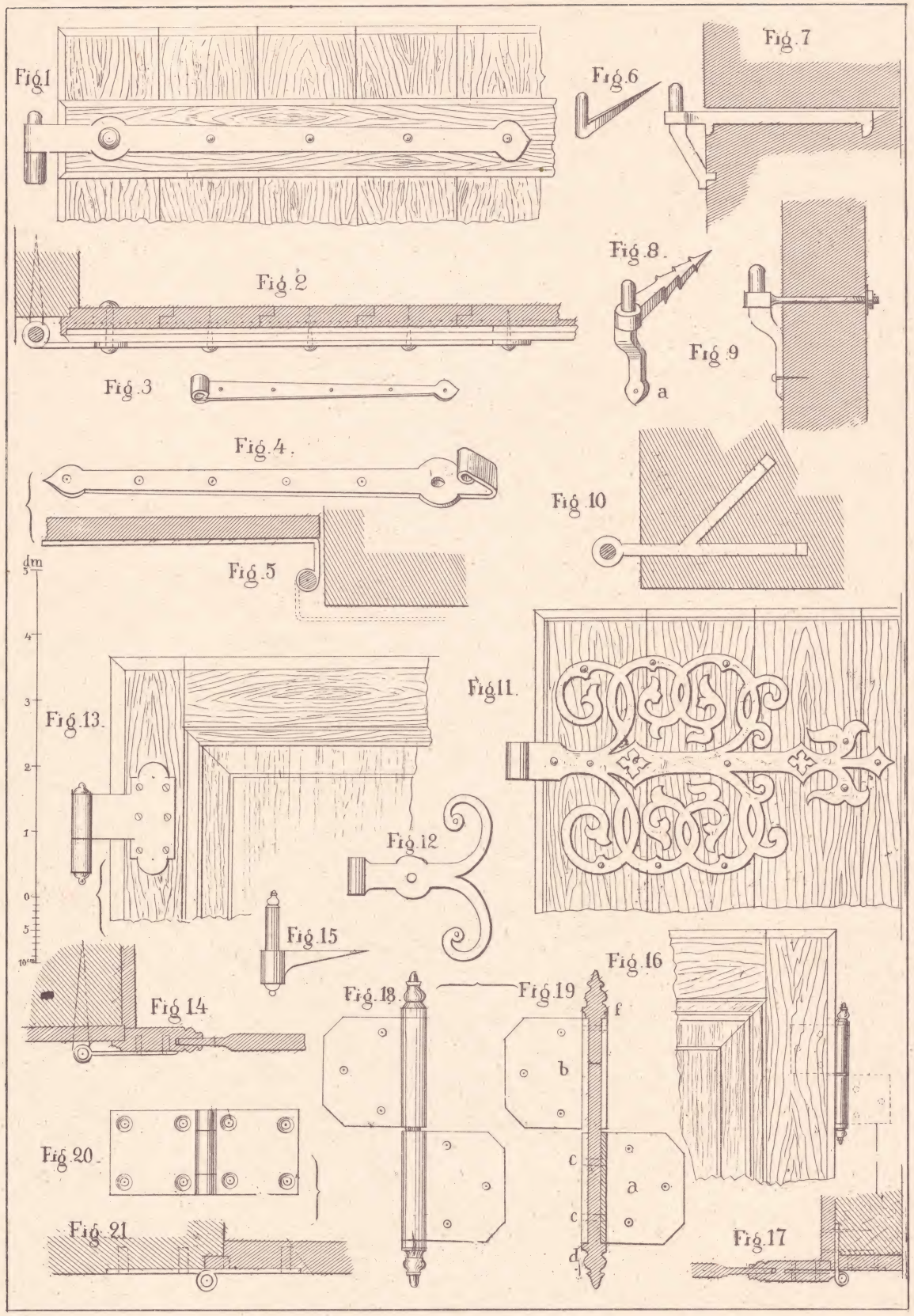
Fig. 1
Fig. 6
Fig. 7
Fig. 2
Fig. 8.
Fig. 9
a
Fig. 3
Fig. 4.
Fig. 10
Fig. 5
dm
Fig. 11.
Fig. 13.
Fig. 12
Fig. 15
Fig. 16
Fig. 14
Fig. 18.
Fig. 19
f
b
c
a
c
d
Fig. 20.
Fig. 21
Fig. 17

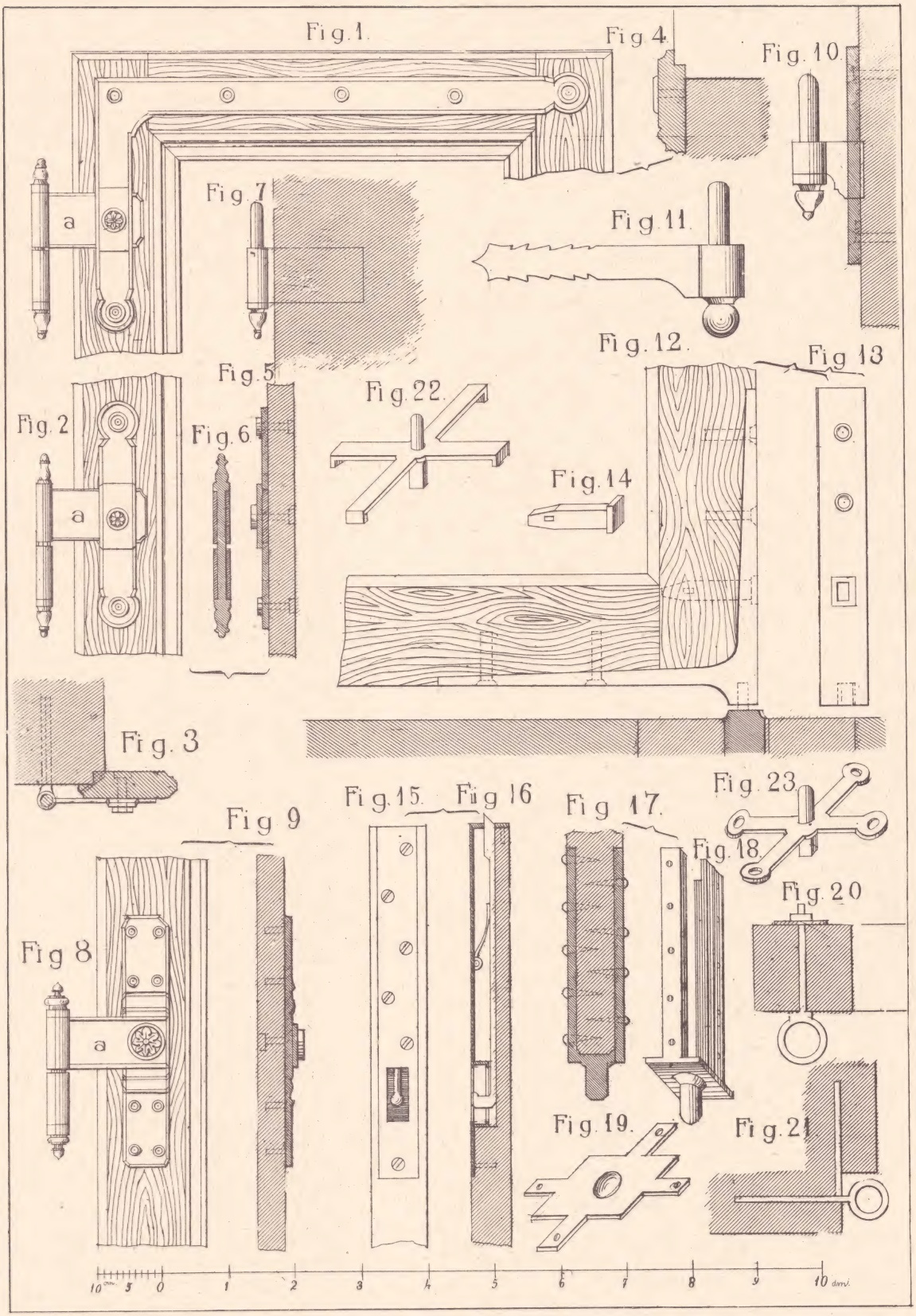
Fig. 1.
Fig. 4
Fig. 10.
a
Fig. 7
Fig. 11.
Fig. 12.
Fig. 13
Fig. 5
Fig. 22.
Fig. 2
Fig. 6
Fig. 14
a
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Fig. 15.
Fig. 16
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a
Fig. 19.
Fig. 21
10 5 0 1 2 3 4 5 6 7 8 9 10 dcm.

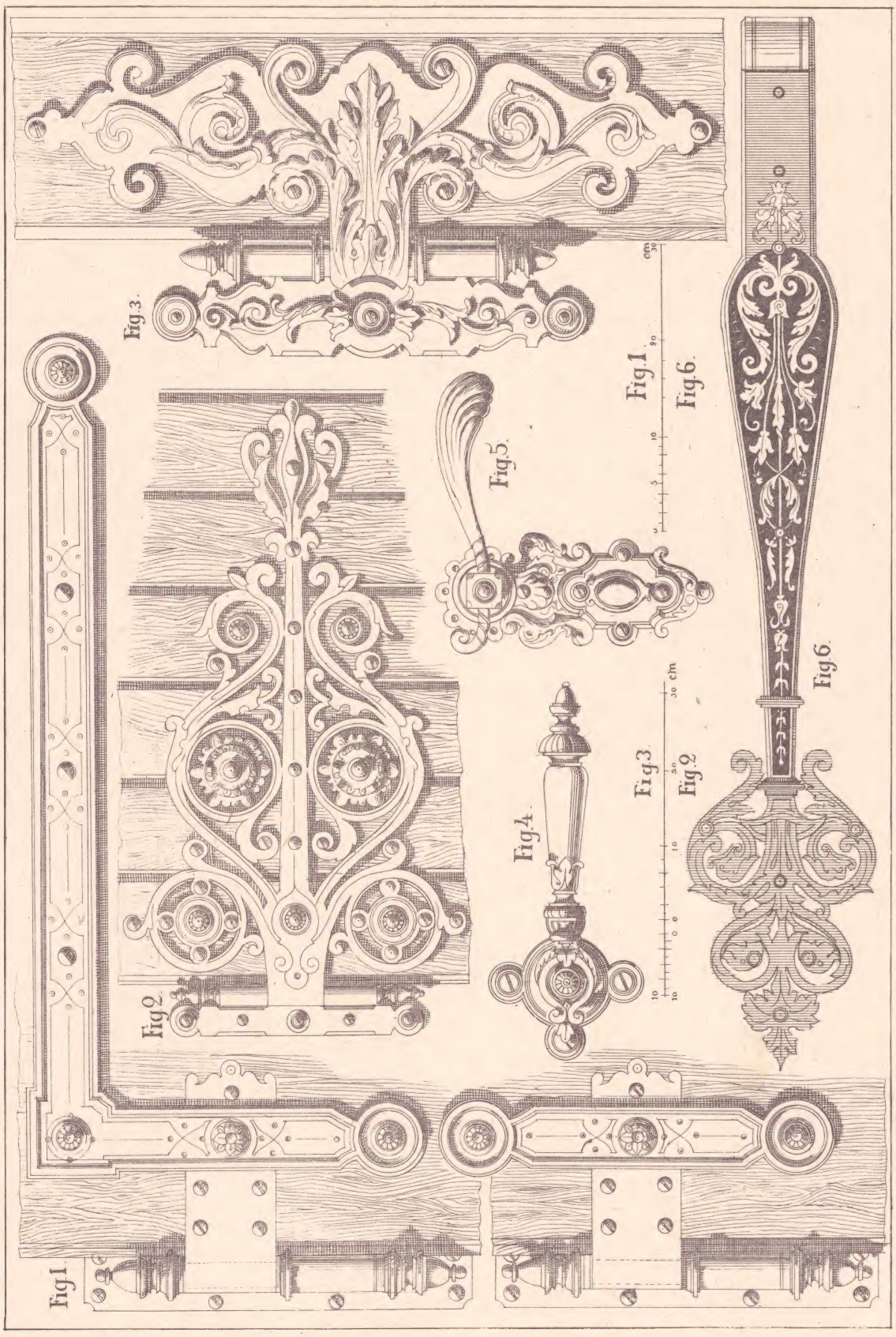
Fig.1
Fig.2
Fig.3
Fig.4
Fig.5
Fig.6
Fig.1
Fig.2
Fig.3
Fig.6
cm
30 cm

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4. *seconde a—b*

Fig. 5 *seconde c-d*

Fig. 6. *seconde f-g*

Fig. 7. *seconde g h*

Fig. 8. *seconde h-i*

Fig. 9. *seconde i-k*

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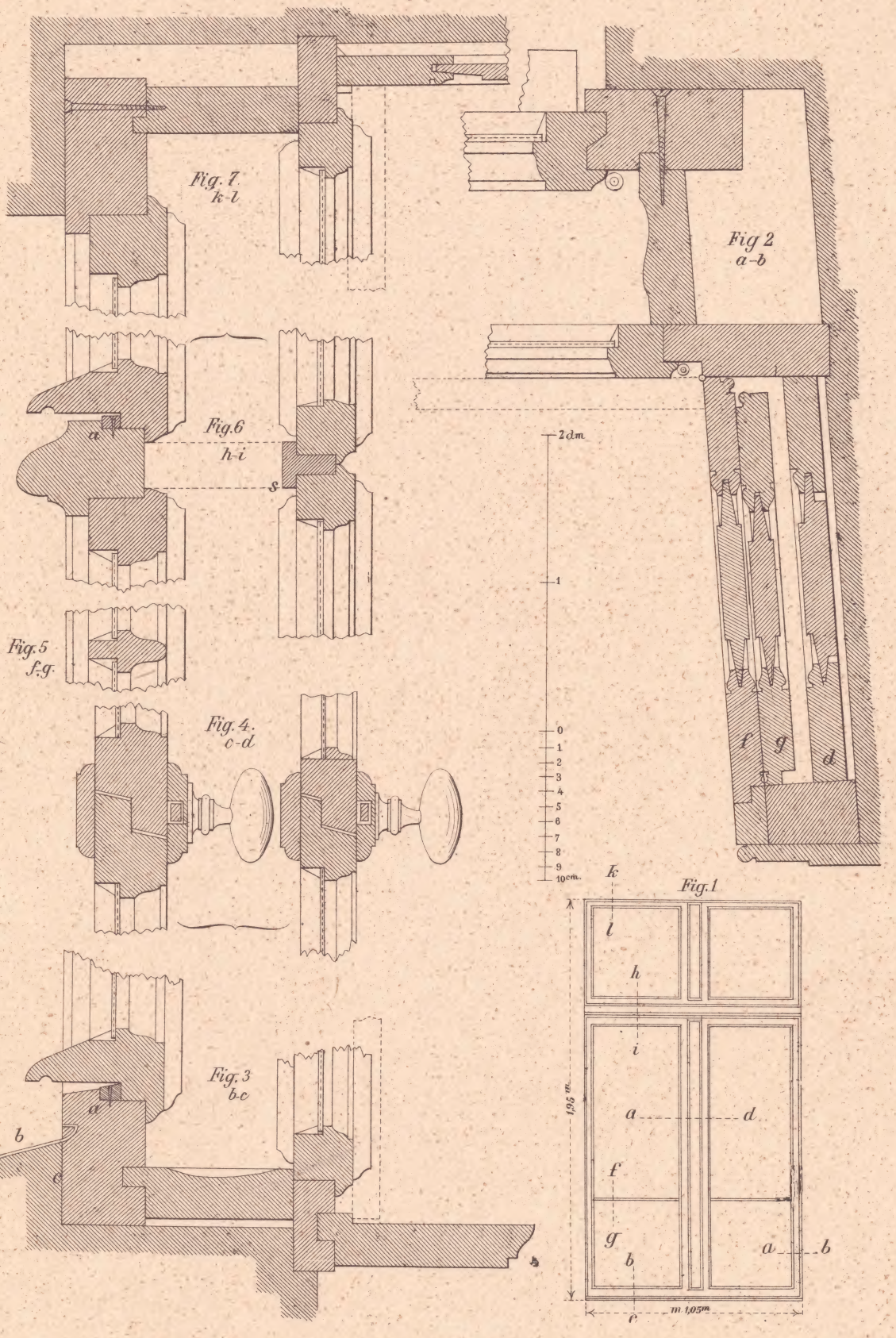
Fig. 7
k-l
Fig 2
a-b
Fig.6
h-i
a
s
Fig.5
f.g.
Fig. 4.
c-d
Fig. 3
b-c
a
b
c
2 d.m.
1
0
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2
3
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5
6
7
8
9
10cm.
f
g
d
K
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f
g
b
a
b
c
m. 1,95 m.
m. 1,05m.

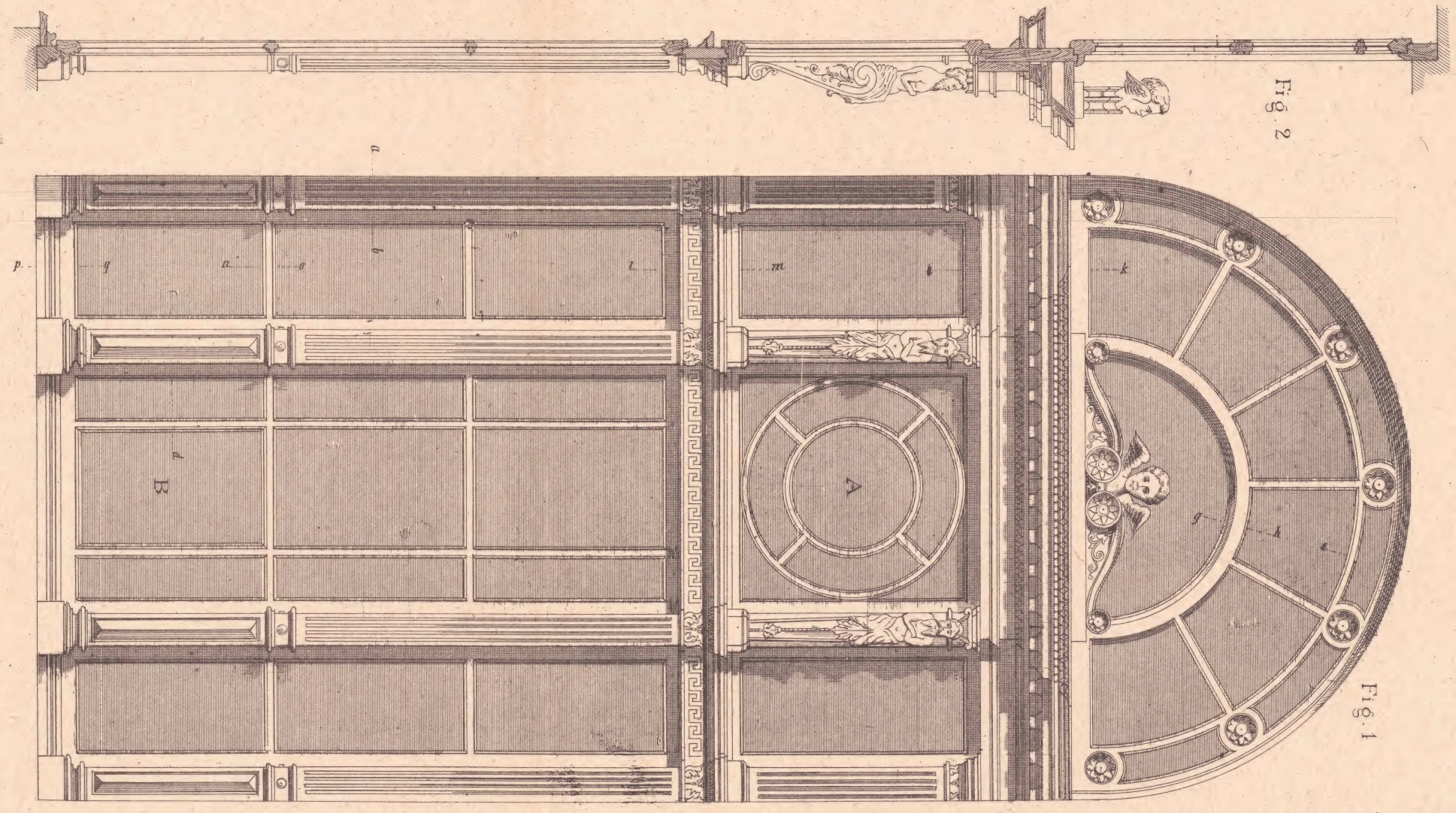
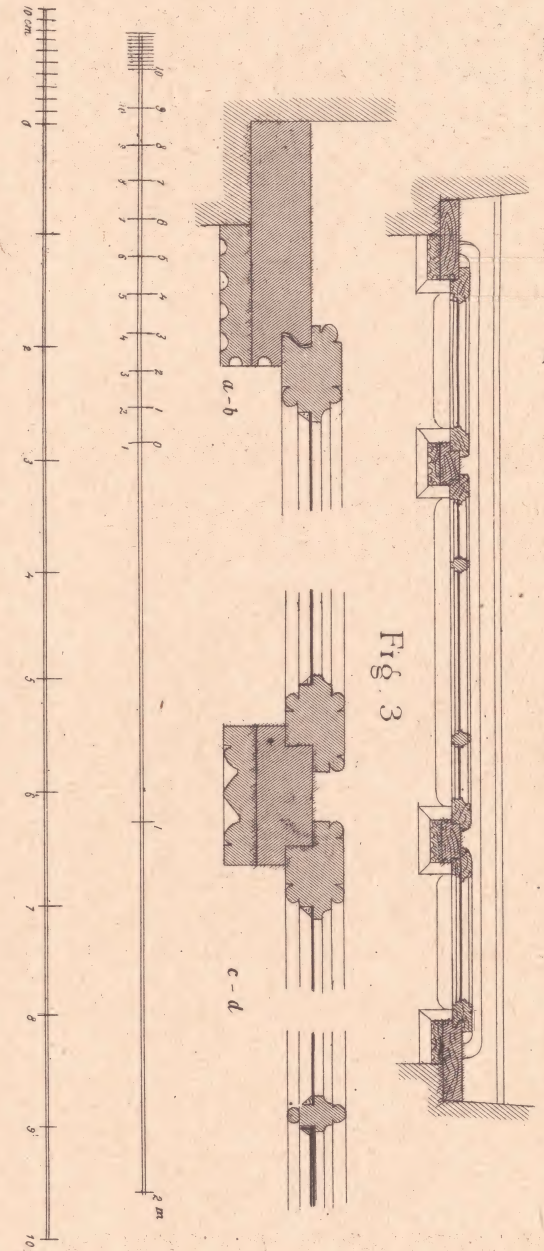


Fig. 1

Fig. 2



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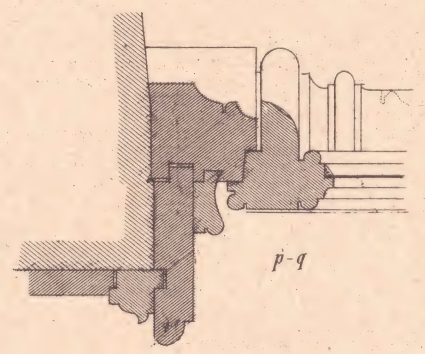

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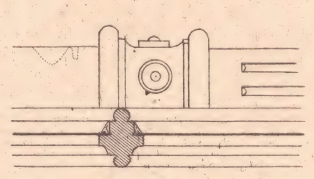

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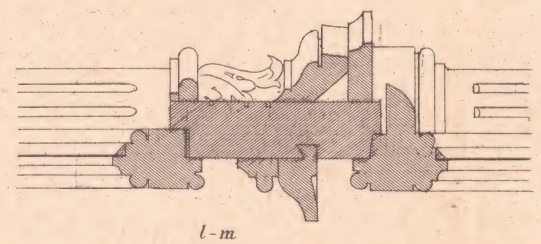

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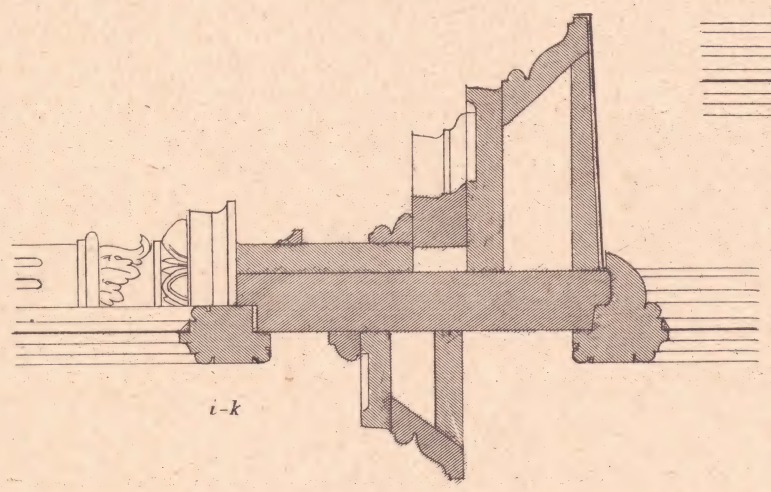

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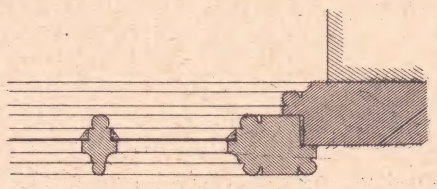
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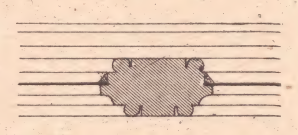

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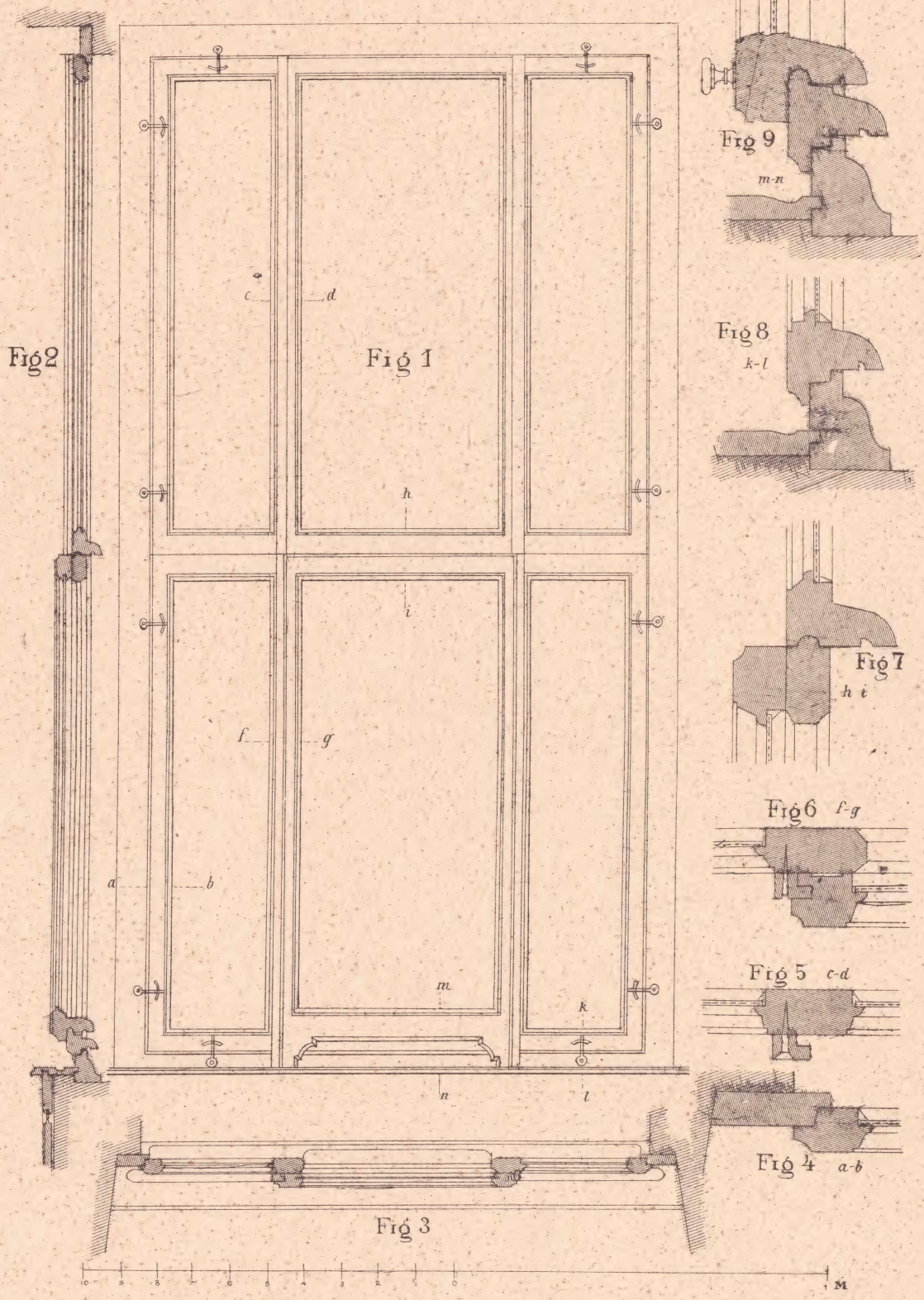
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Fig 1
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k
n
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Fig 3
Fig 9
m-n
Fig 8
k-l
Fig 7
h i
Fig 6 f-g
Fig 5 c-d
Fig 4 a-b
M

Fig 10

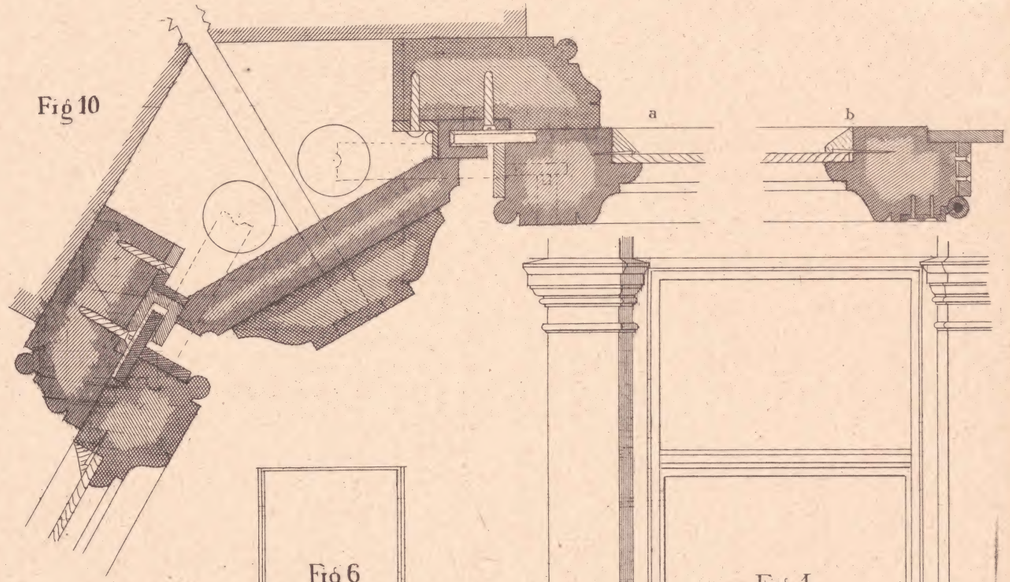

Fig 6

Fig 1

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Fig 9

Fig 8

per la Fig 5 e 6

Fig 5

Fig 4

Fig 7

M per la Fig 1 e 4

M per la Fig 7 e 10

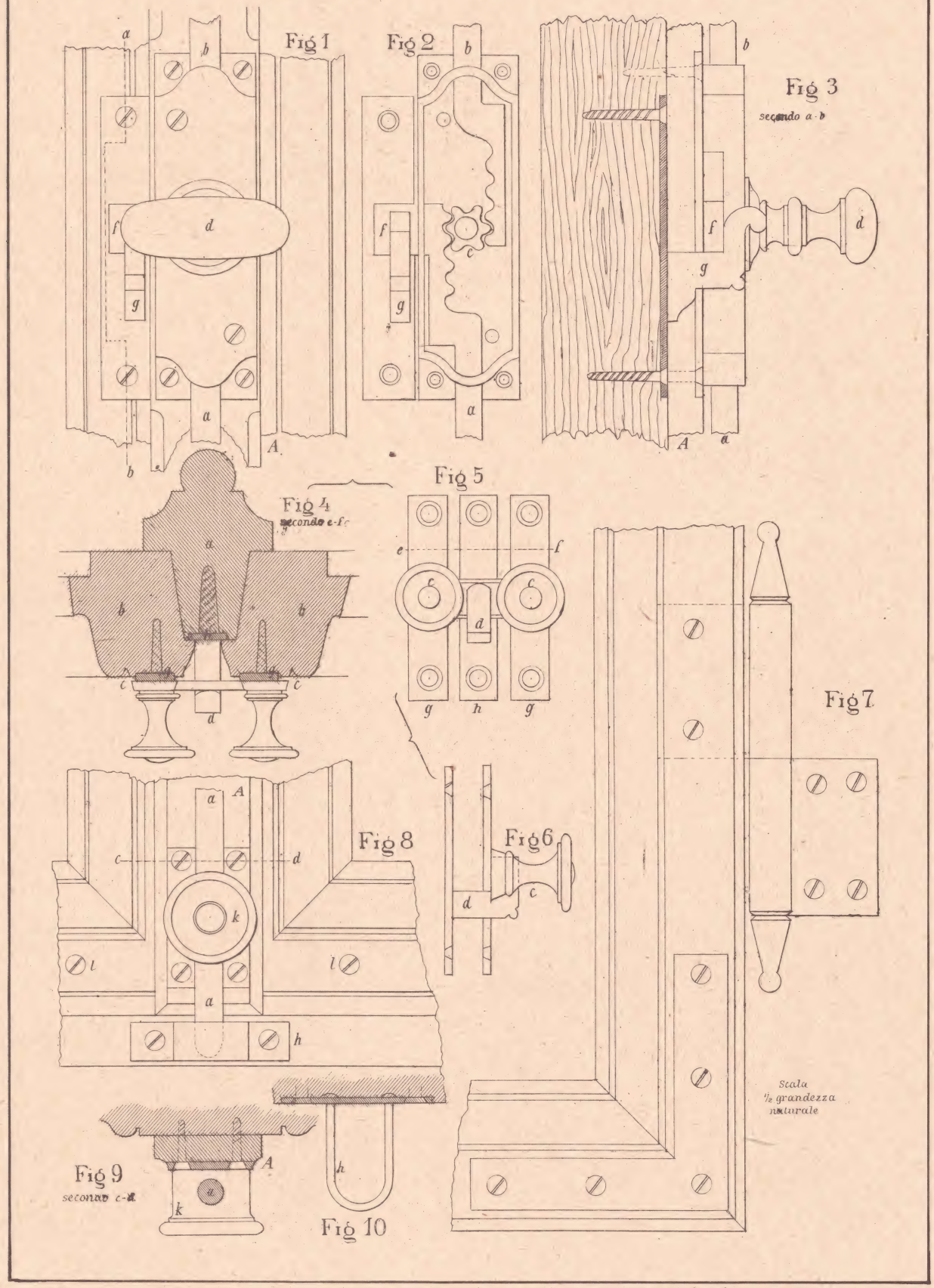
Fig 1
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Scala
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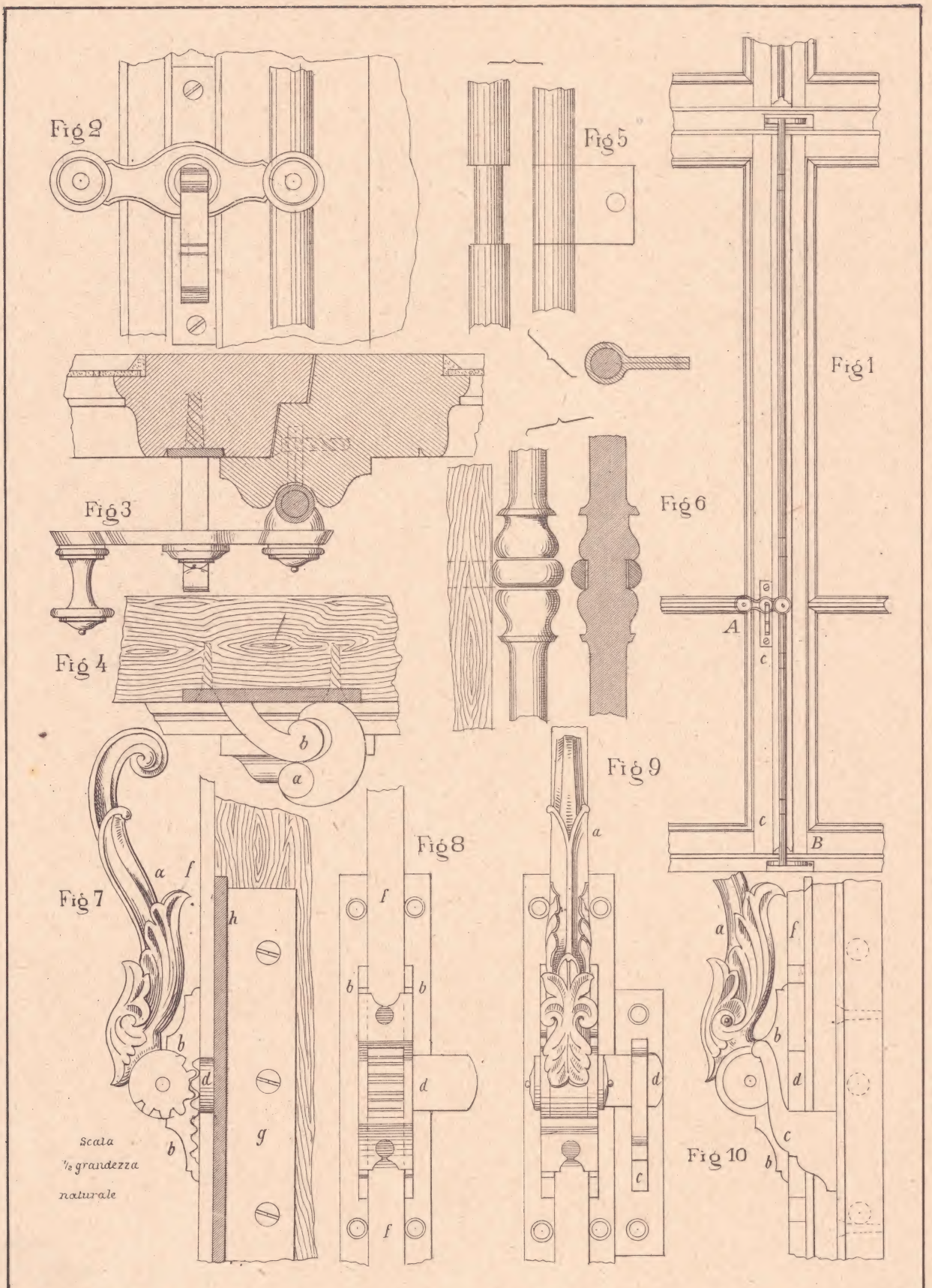
Fig 2
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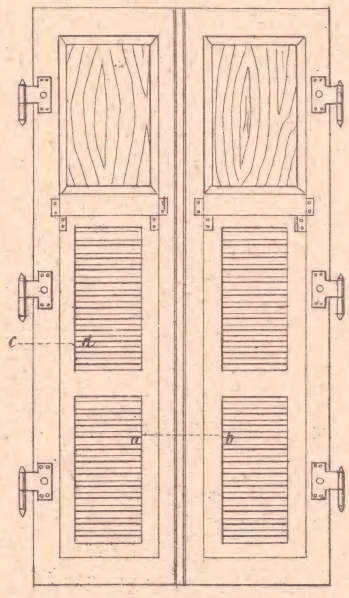
Fig 10
c
b

Fig 1



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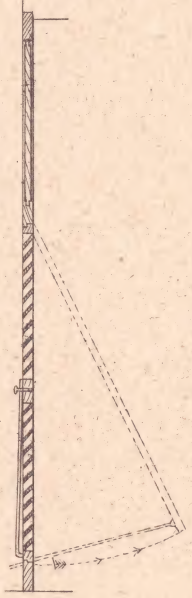

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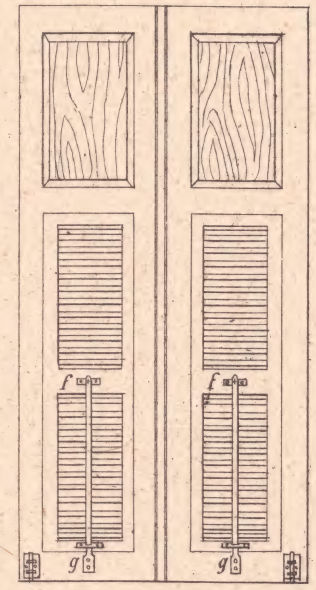

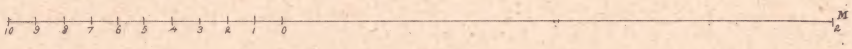

Fig 4 *secondo c-d*

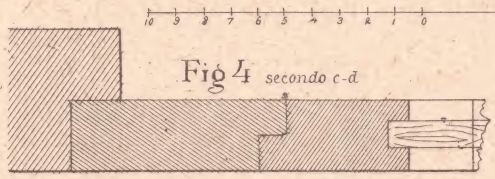

Fig 5 *secondo a-b*

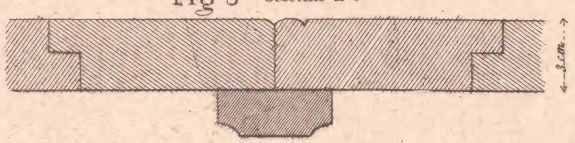

Fig 6

secondo a-b (senza il listello di battuta)

Fig 8

Ferramenta in g (Fig 2)

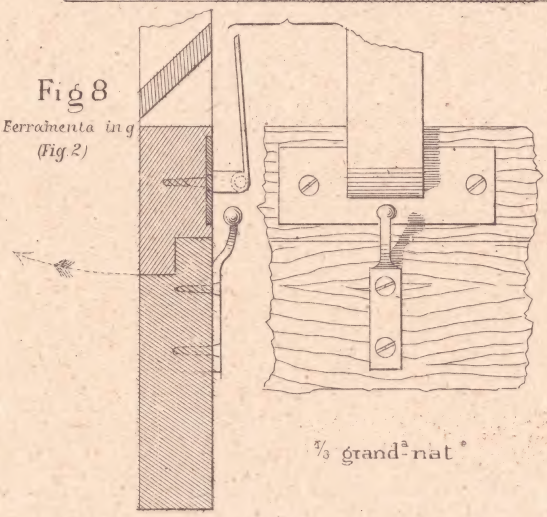

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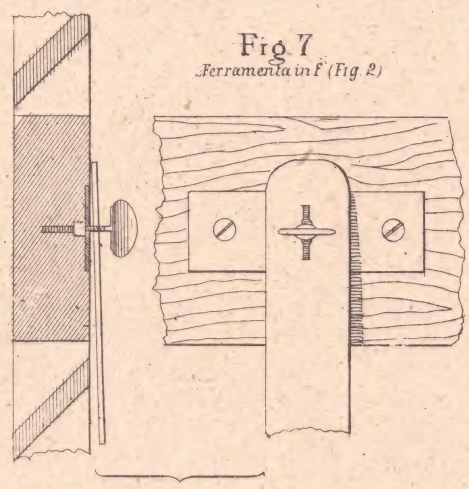
Fig 7

Ferramenta in f (Fig 2)



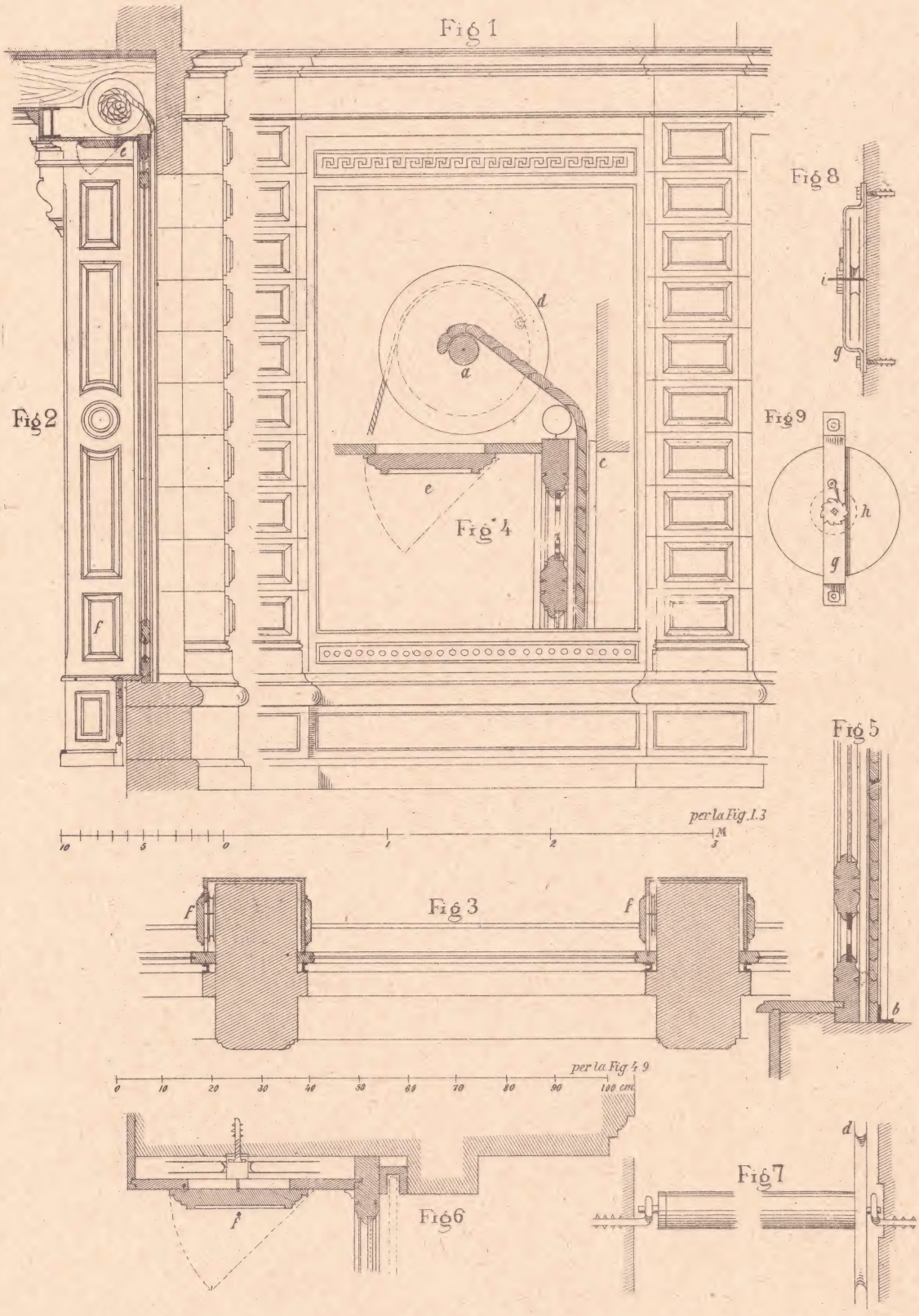


Fig 1
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per la Fig. 1.3
per la Fig 4 9
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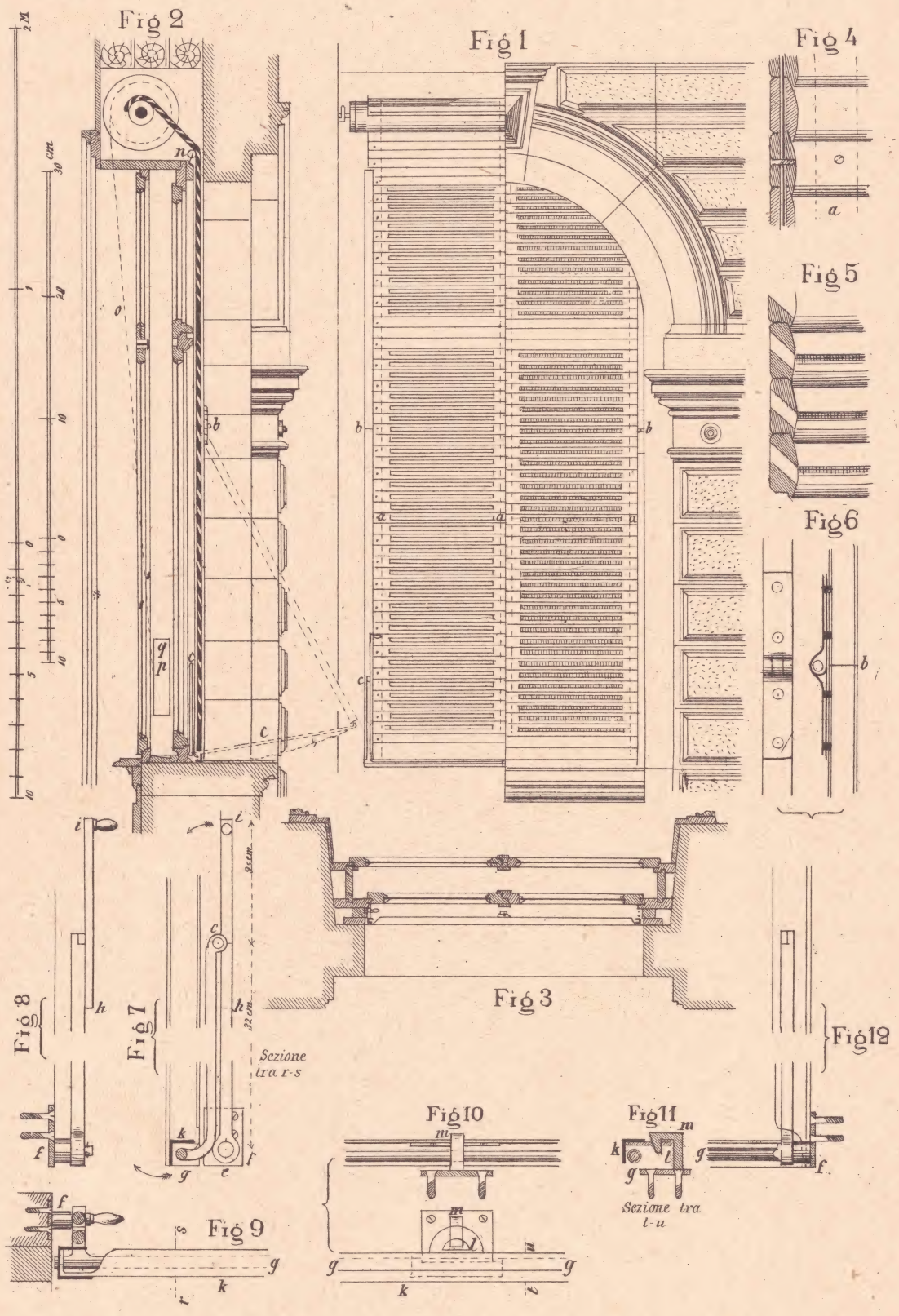
Fig 2
Fig 1
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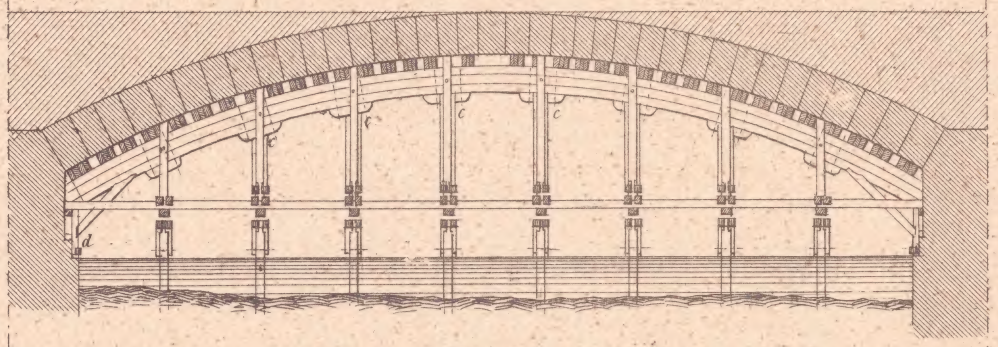
Fig 12
Fig 10
Fig 11
Fig 9
Sezione tra r-s
Sezione tra t-u

Fig 1



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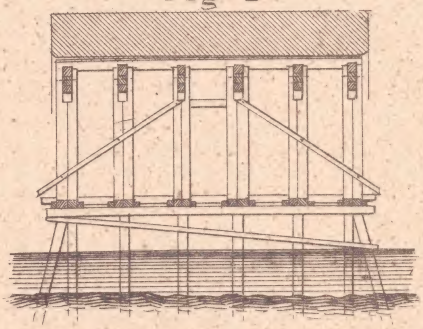

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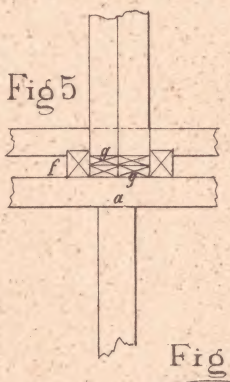

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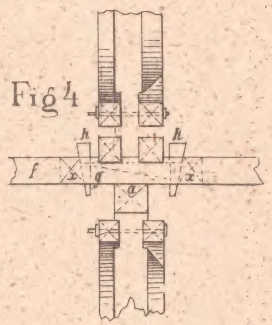

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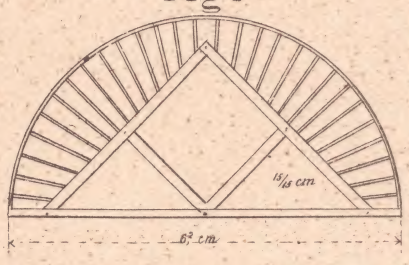

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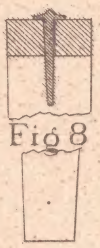

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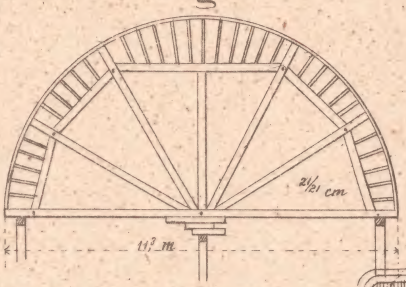

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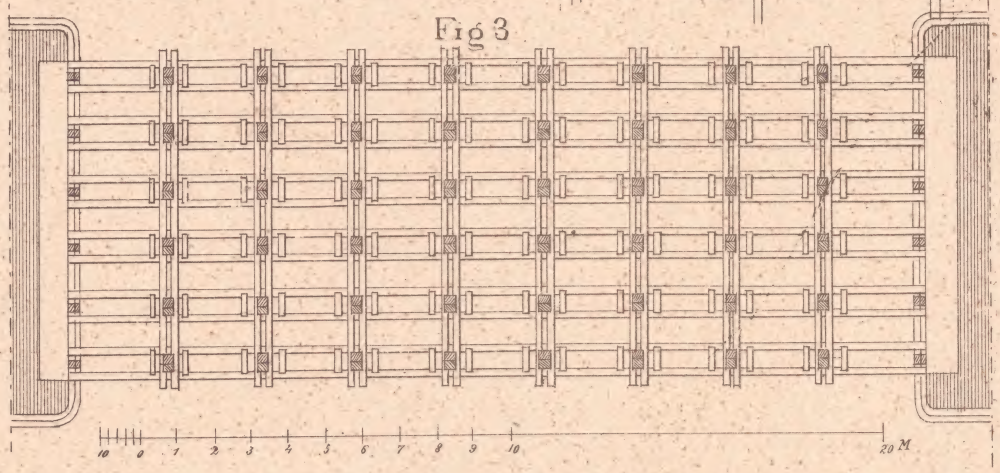

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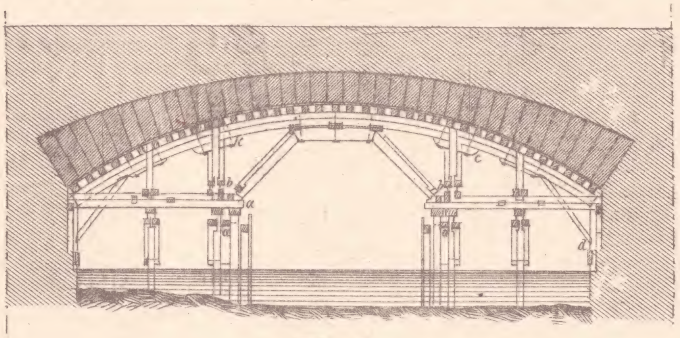

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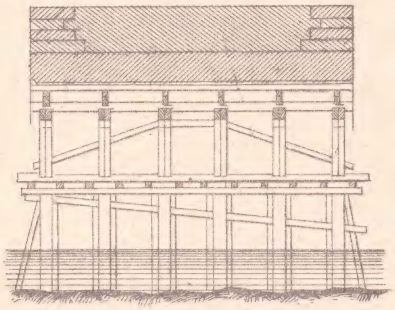

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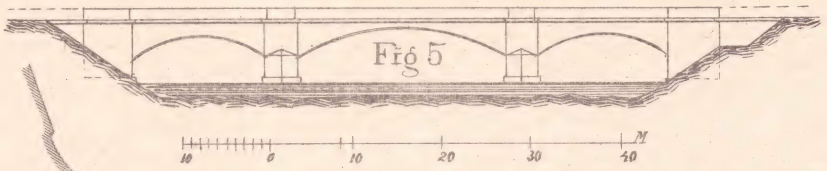

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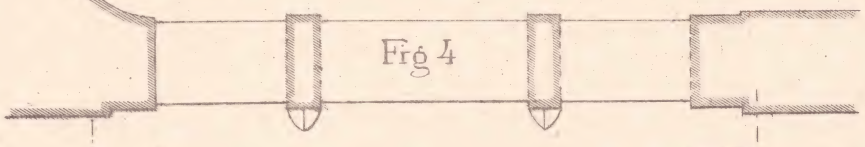

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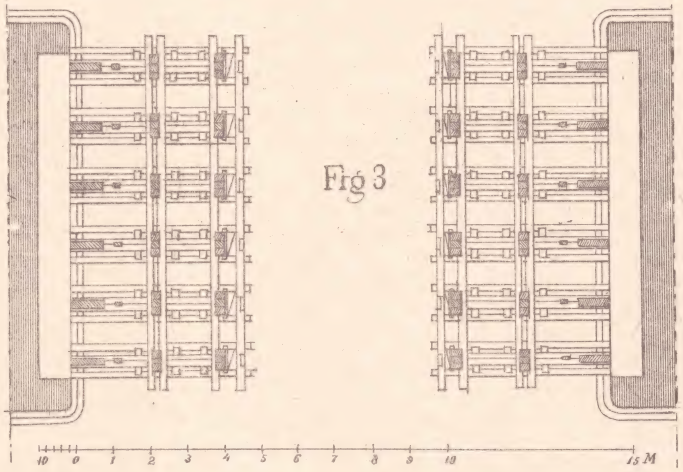

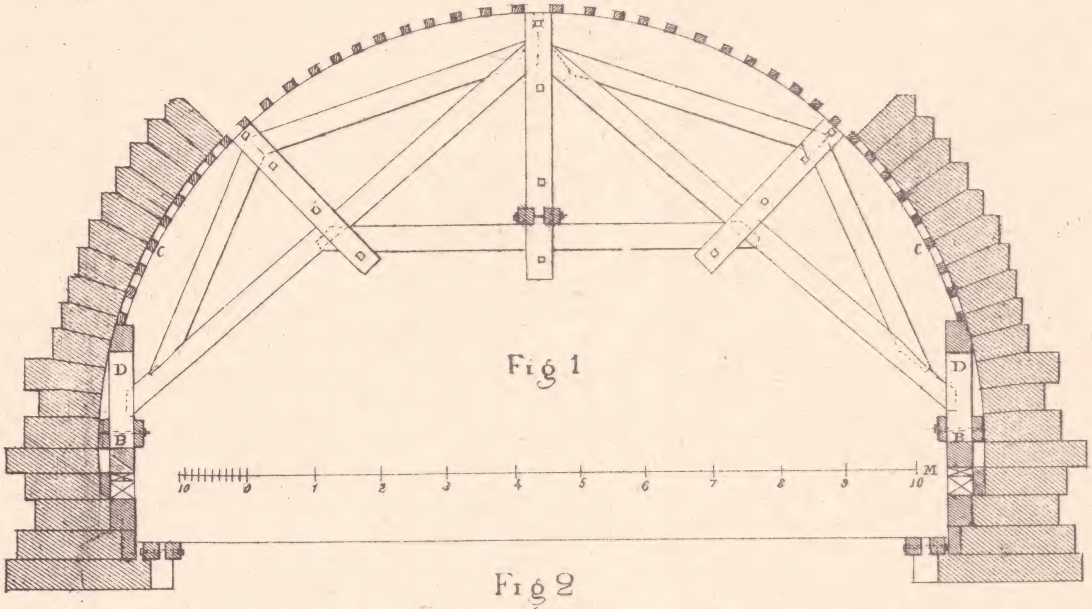

Fig 1

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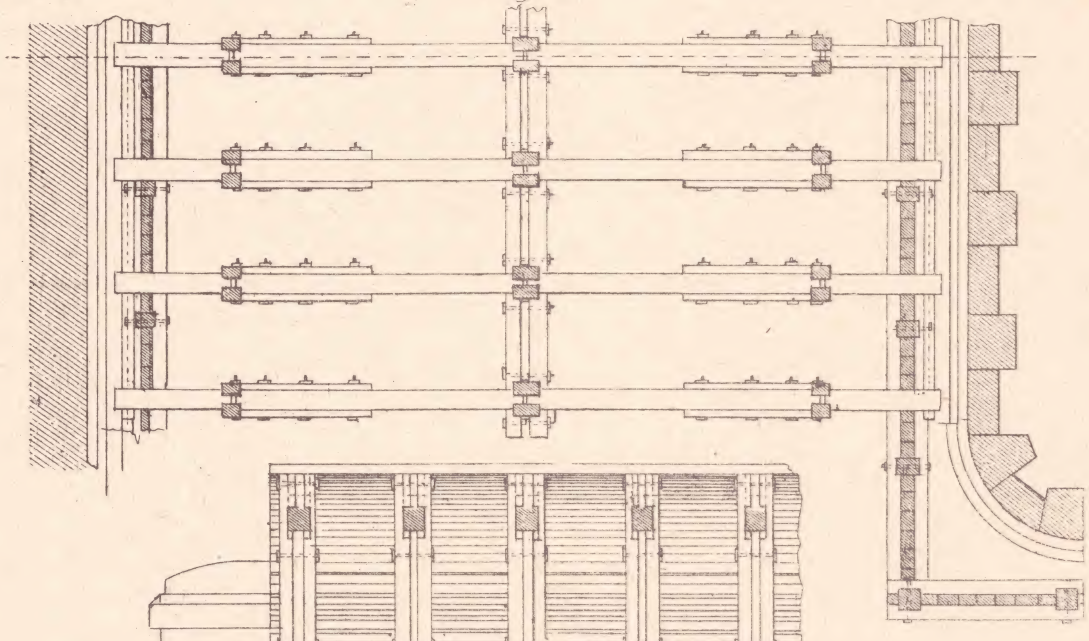

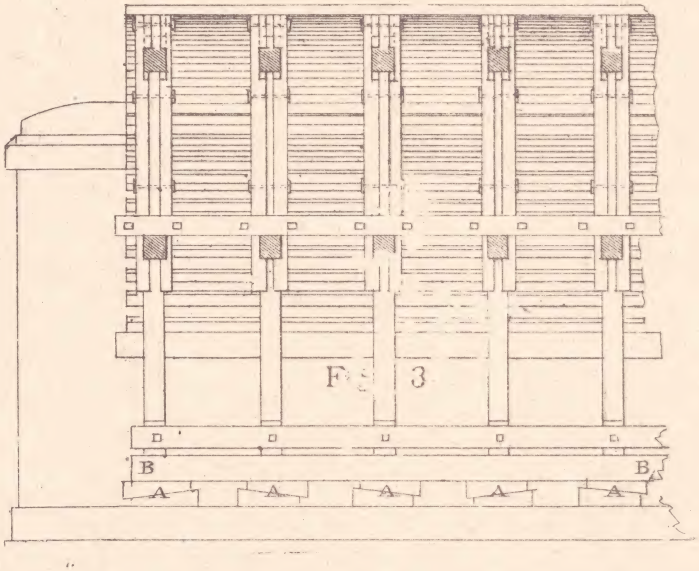

Fig 3

Ponte sull' Elba a Pirna

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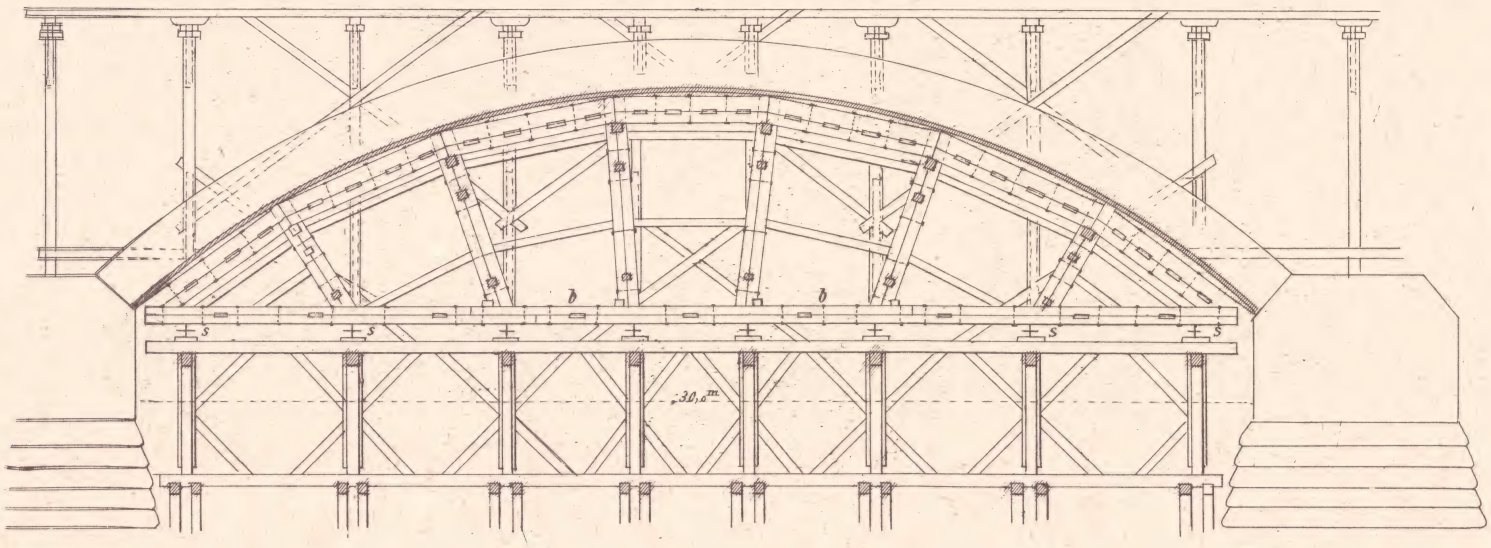


Fig 3

Pianta

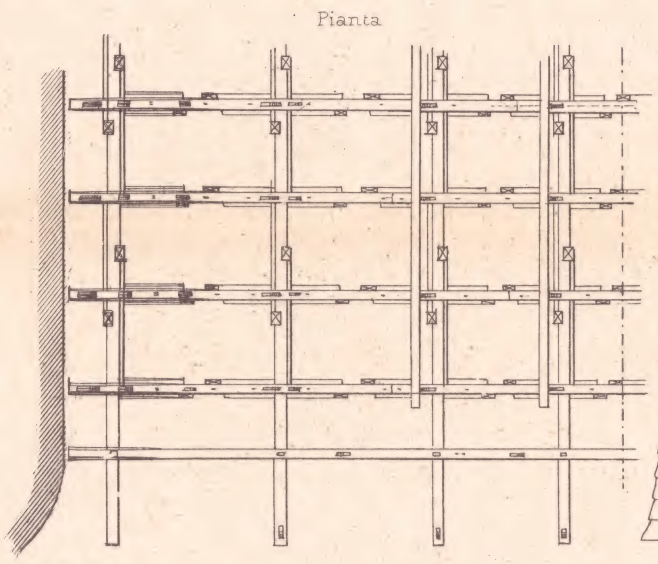
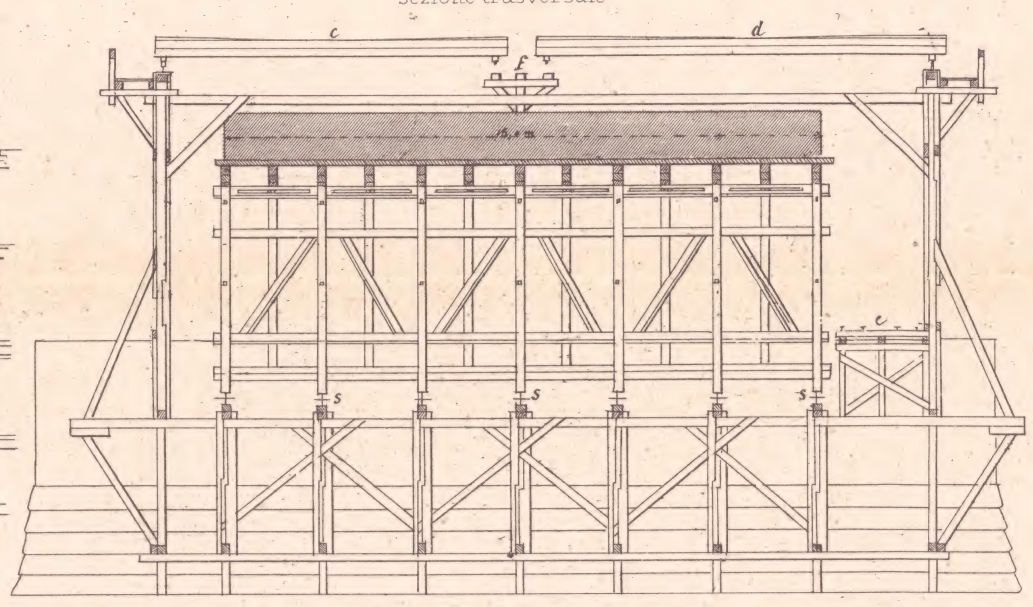


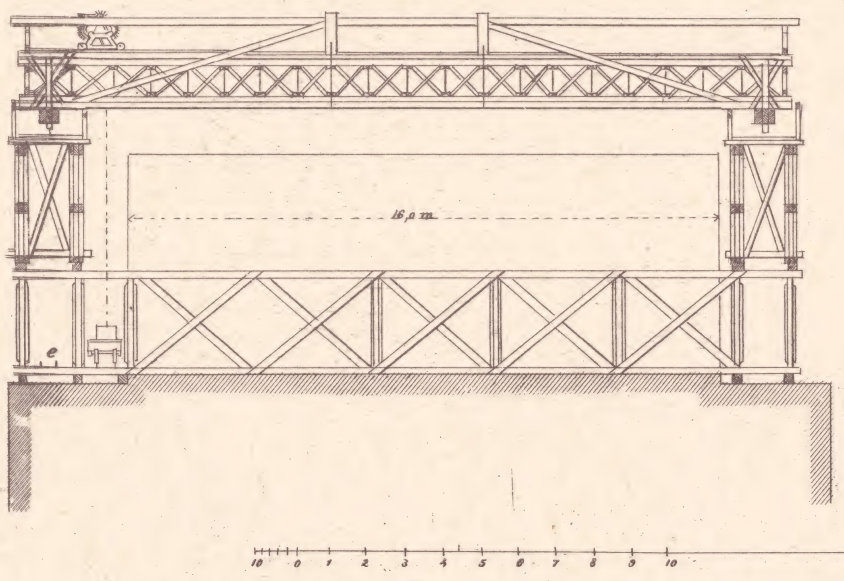
Fig 2

Sezione trasversale



Travatura sistema Howe e Apparecchio scorrevole per volte

Fig 4



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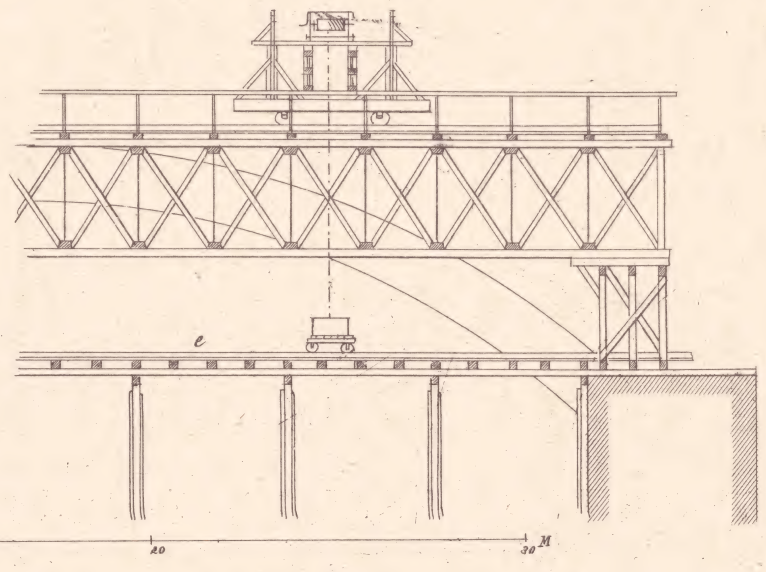

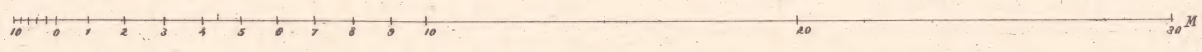

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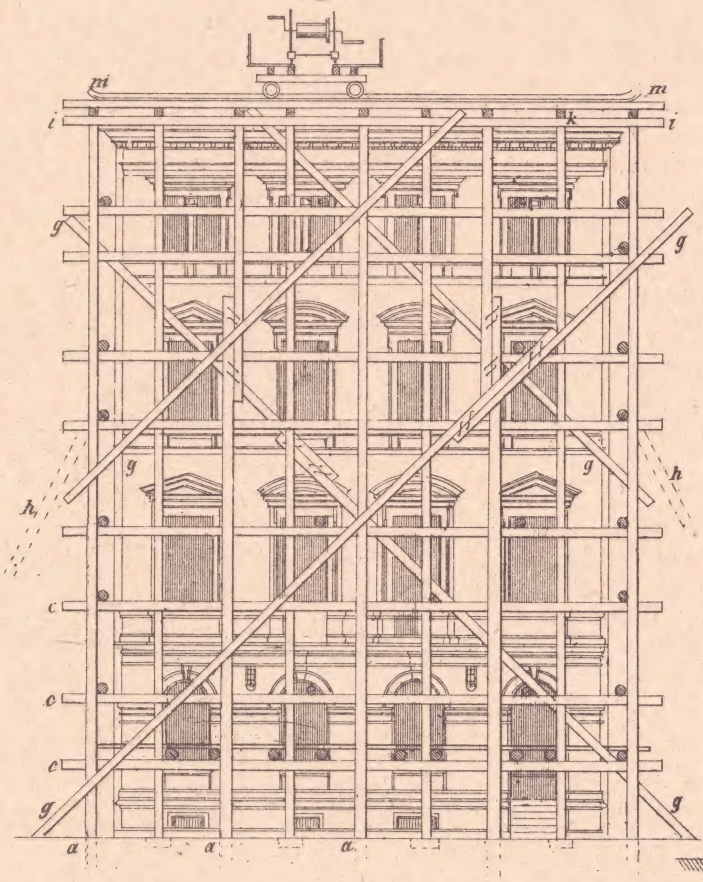

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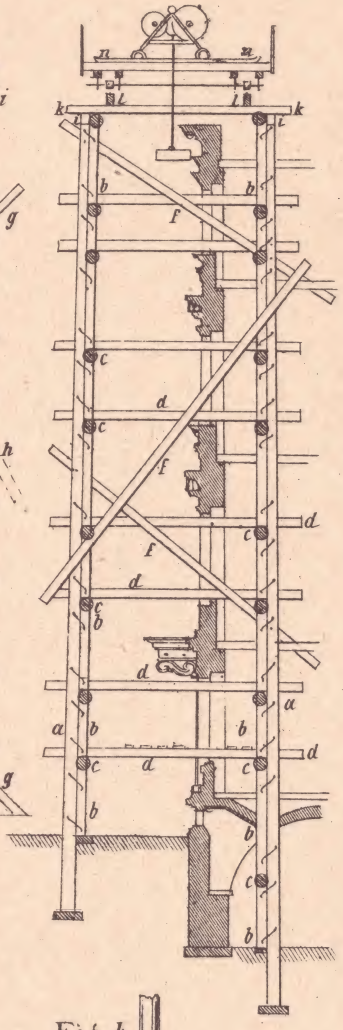

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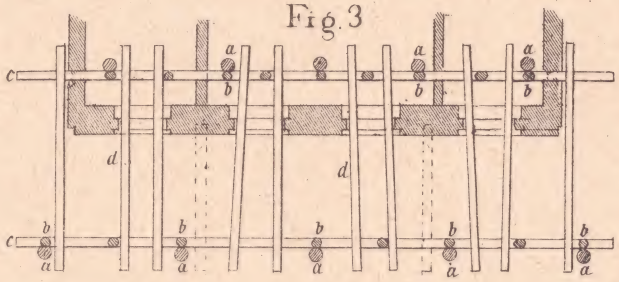

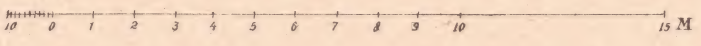

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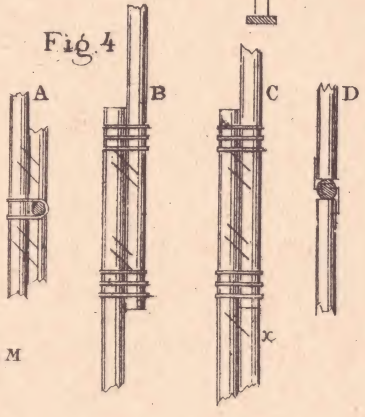

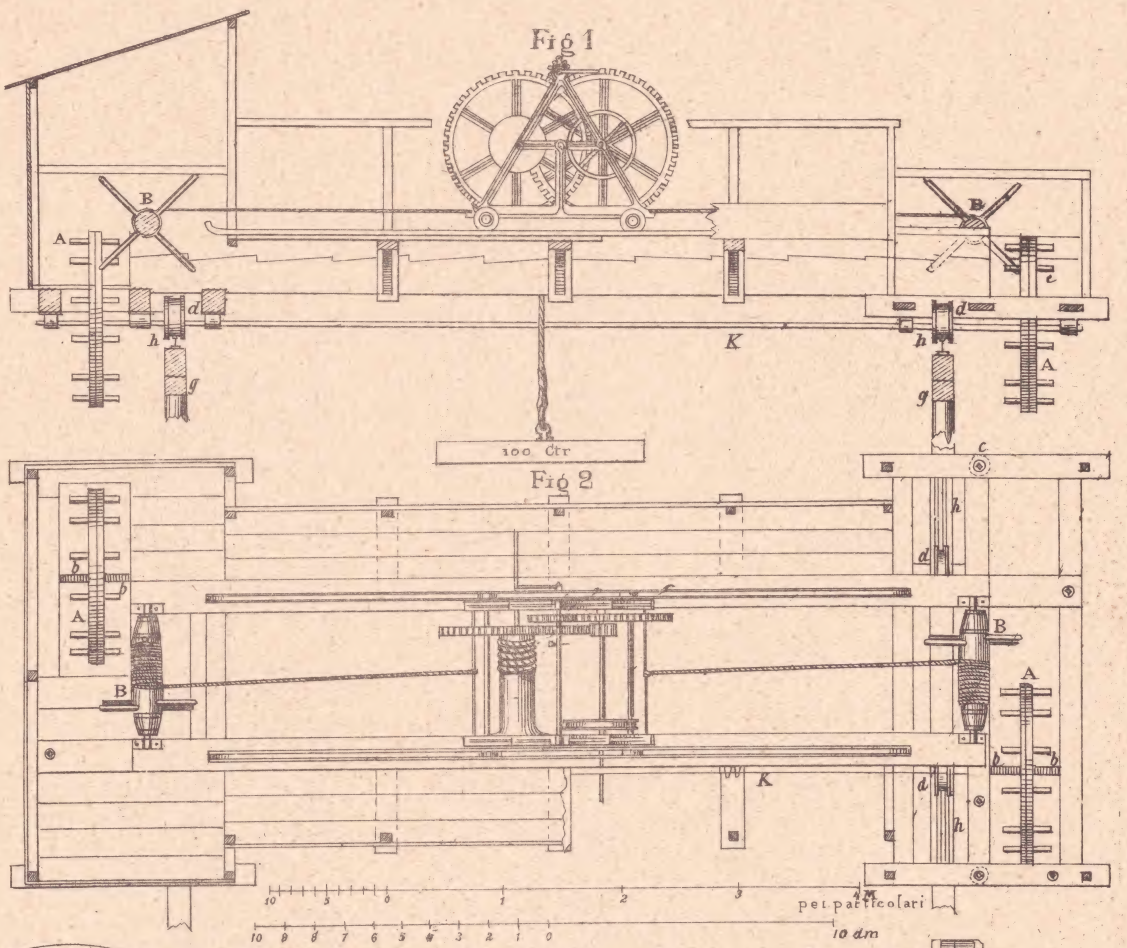

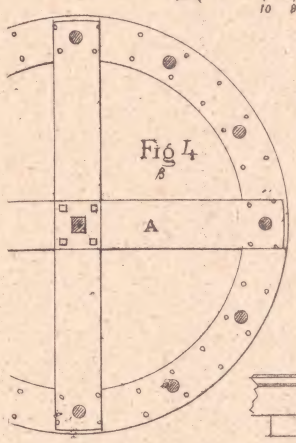

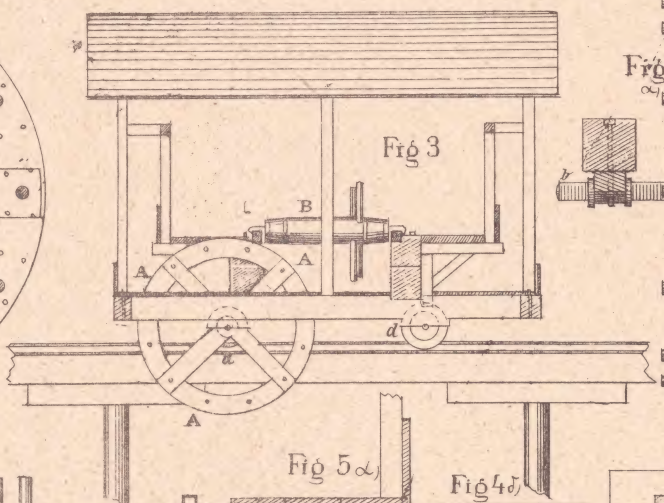

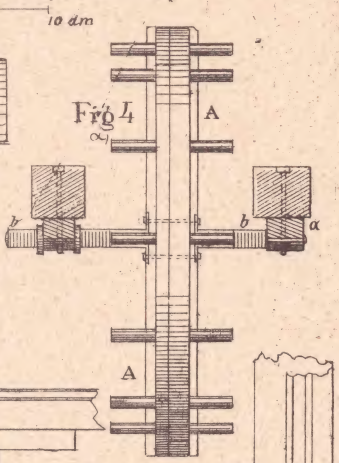

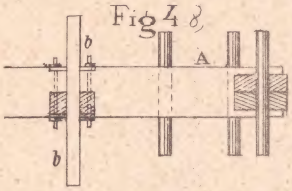

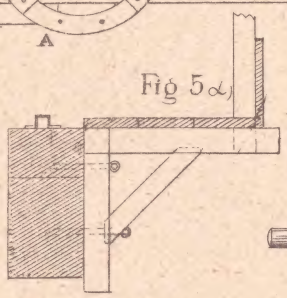

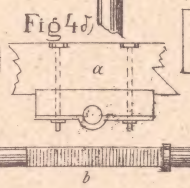

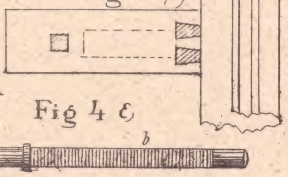

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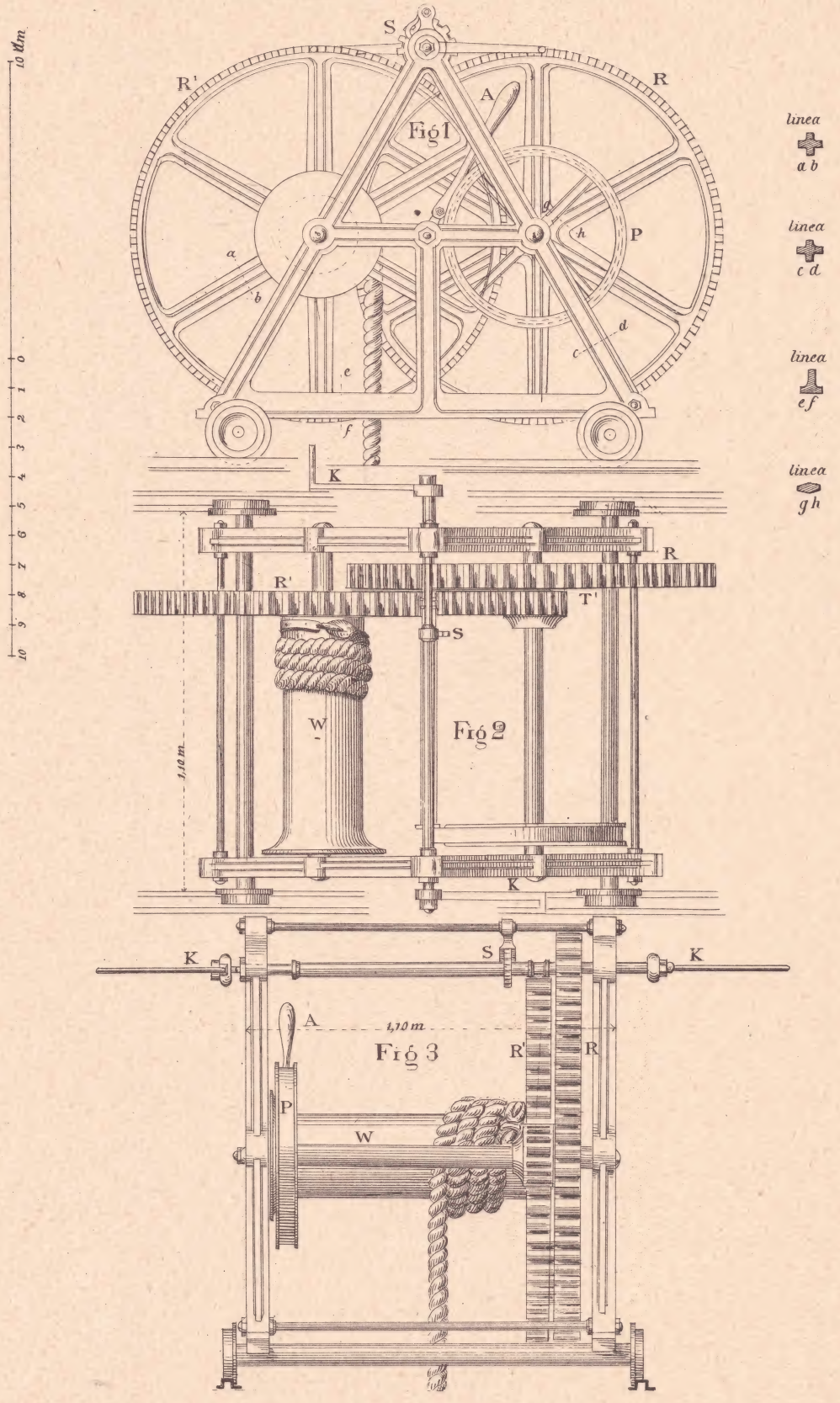
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Impalcatura della Chiesa di S. Trinità in Parigi

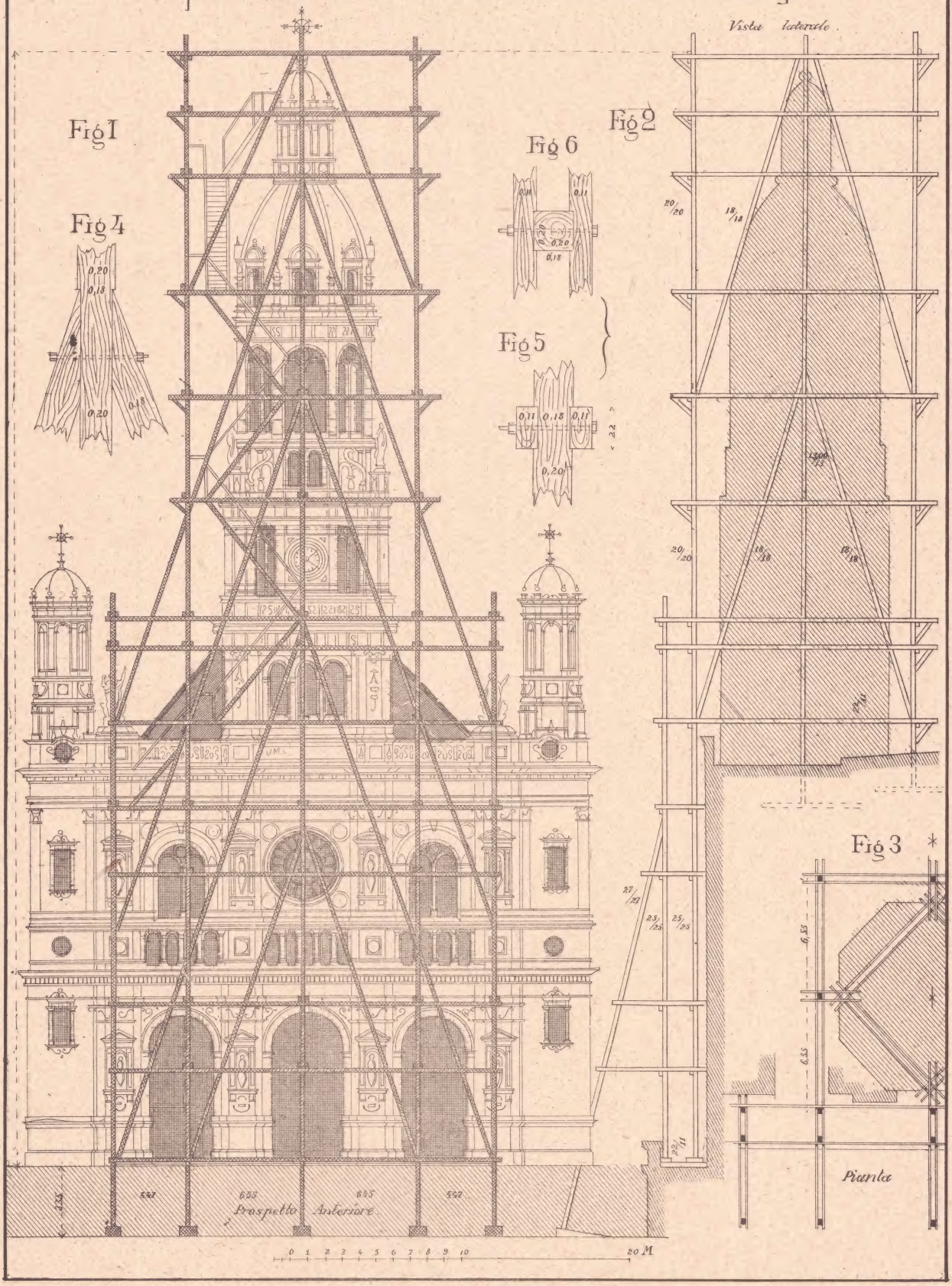

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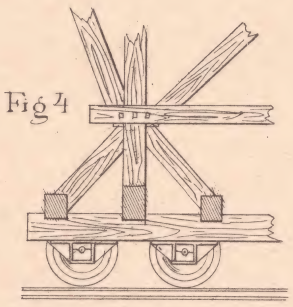
Fig 4



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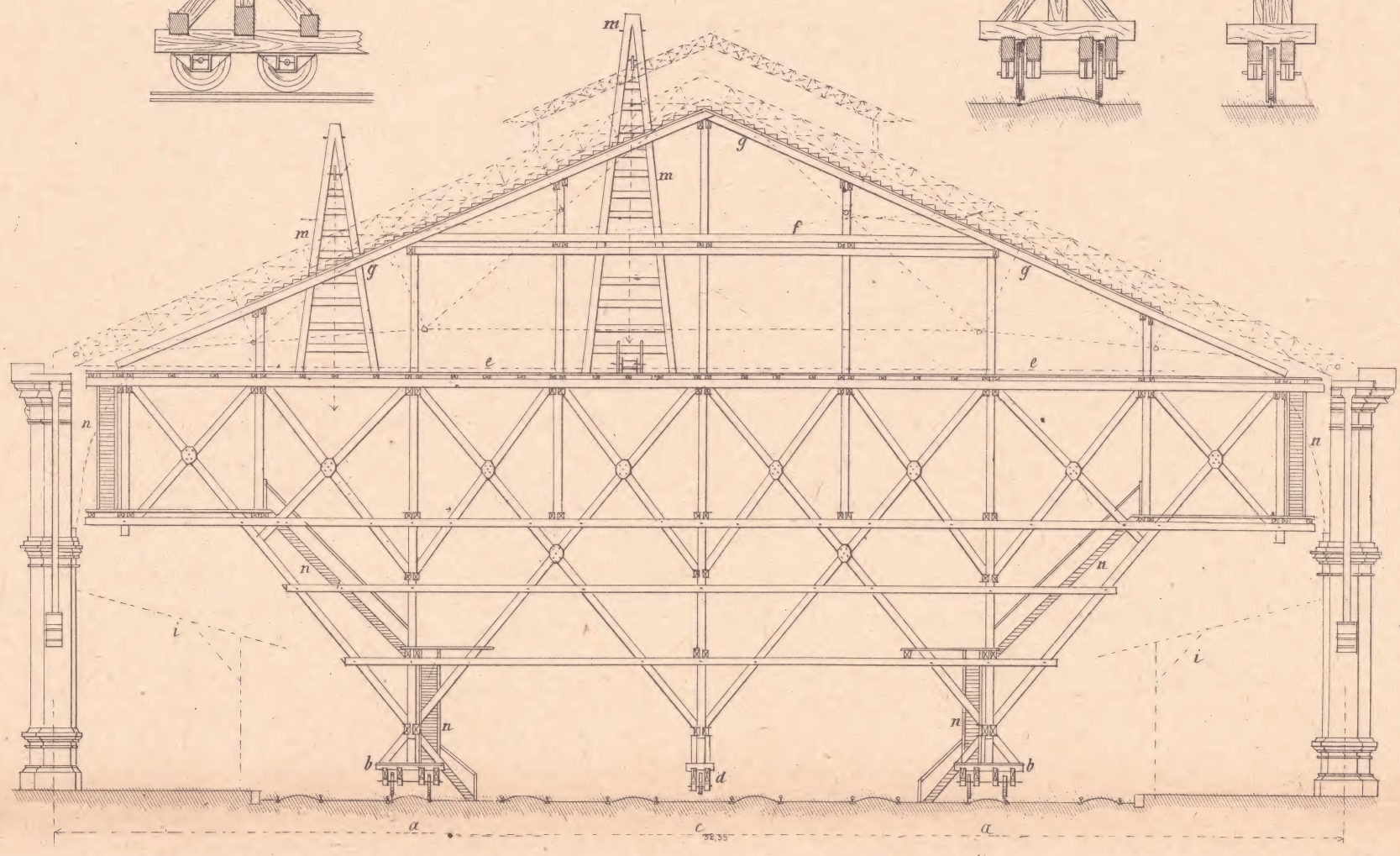

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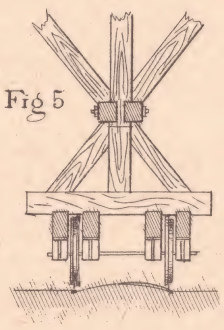

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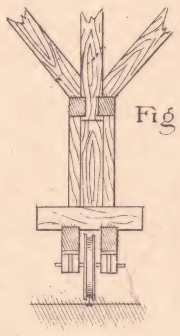


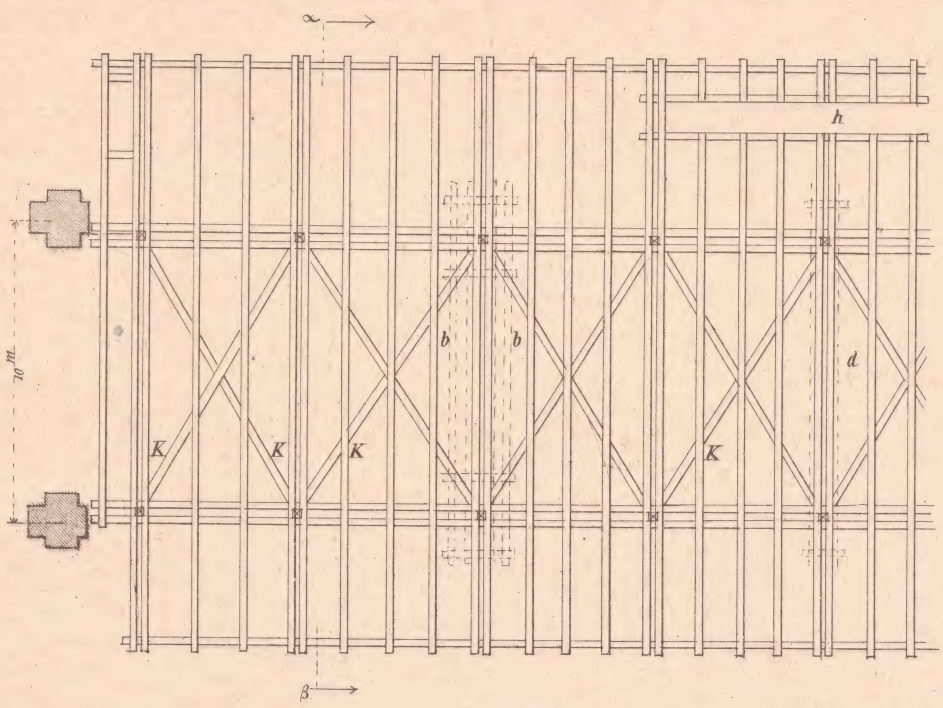
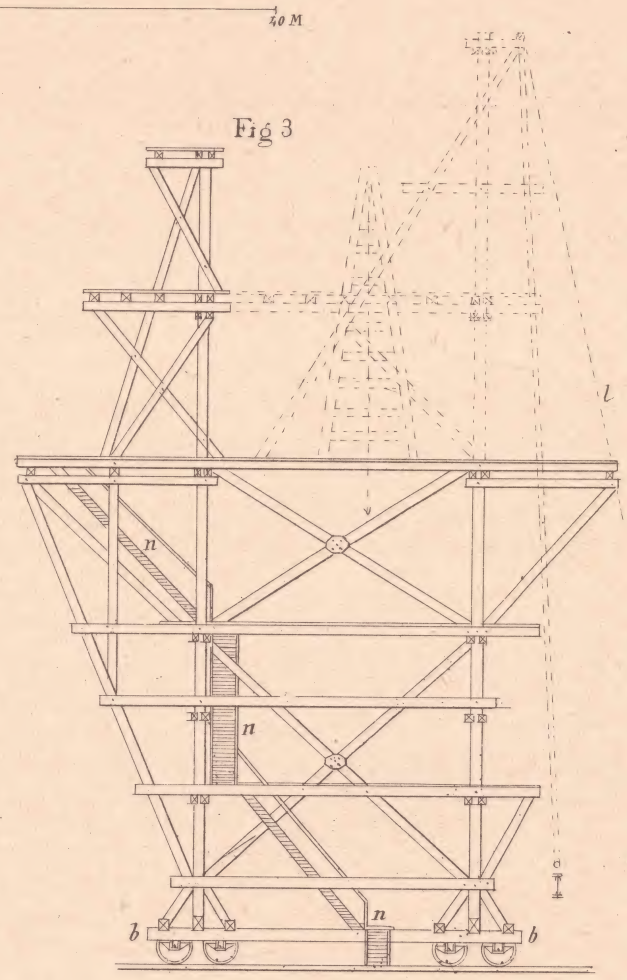


Fig 2

Fig 3



Sezione α-β α-β

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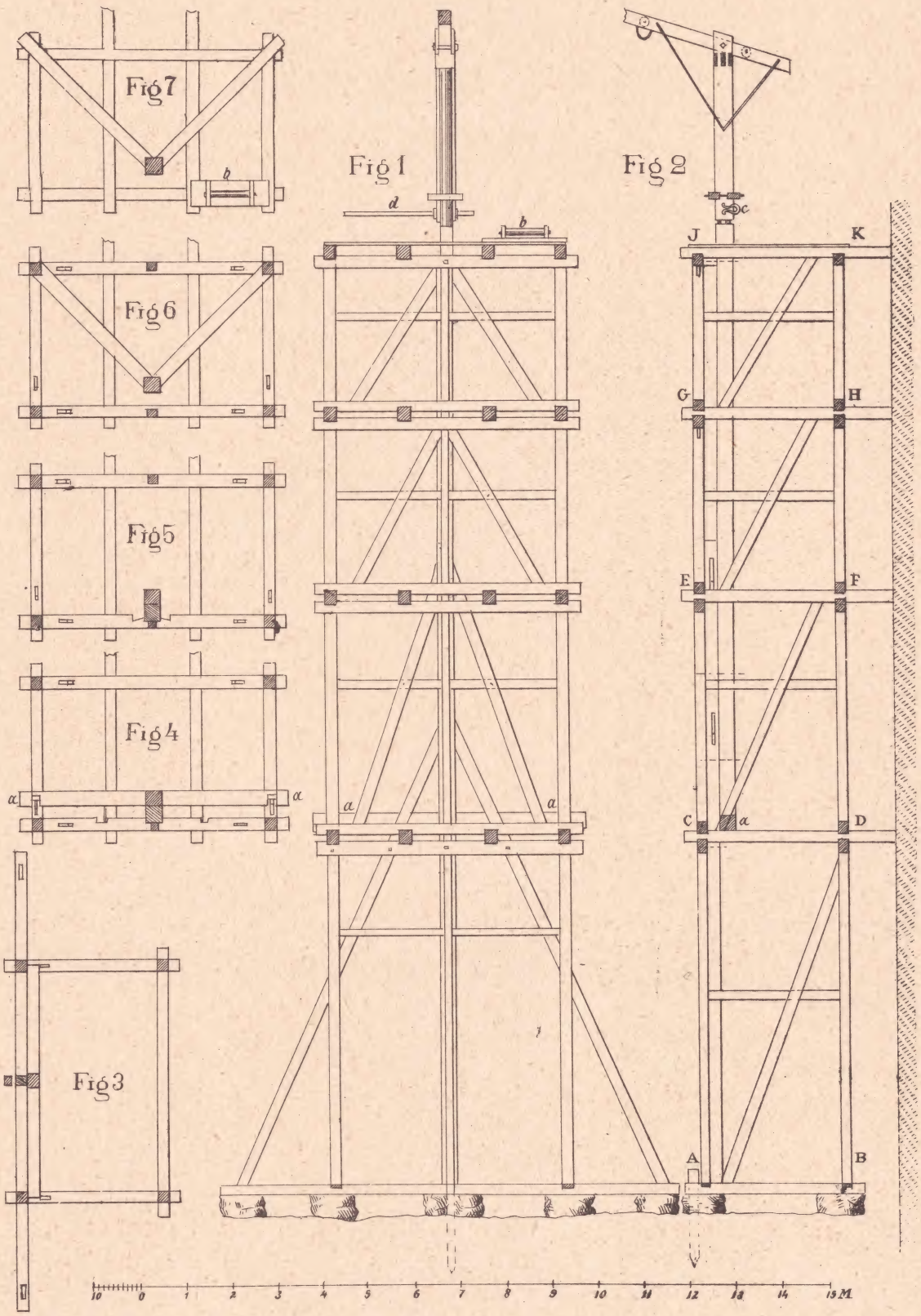
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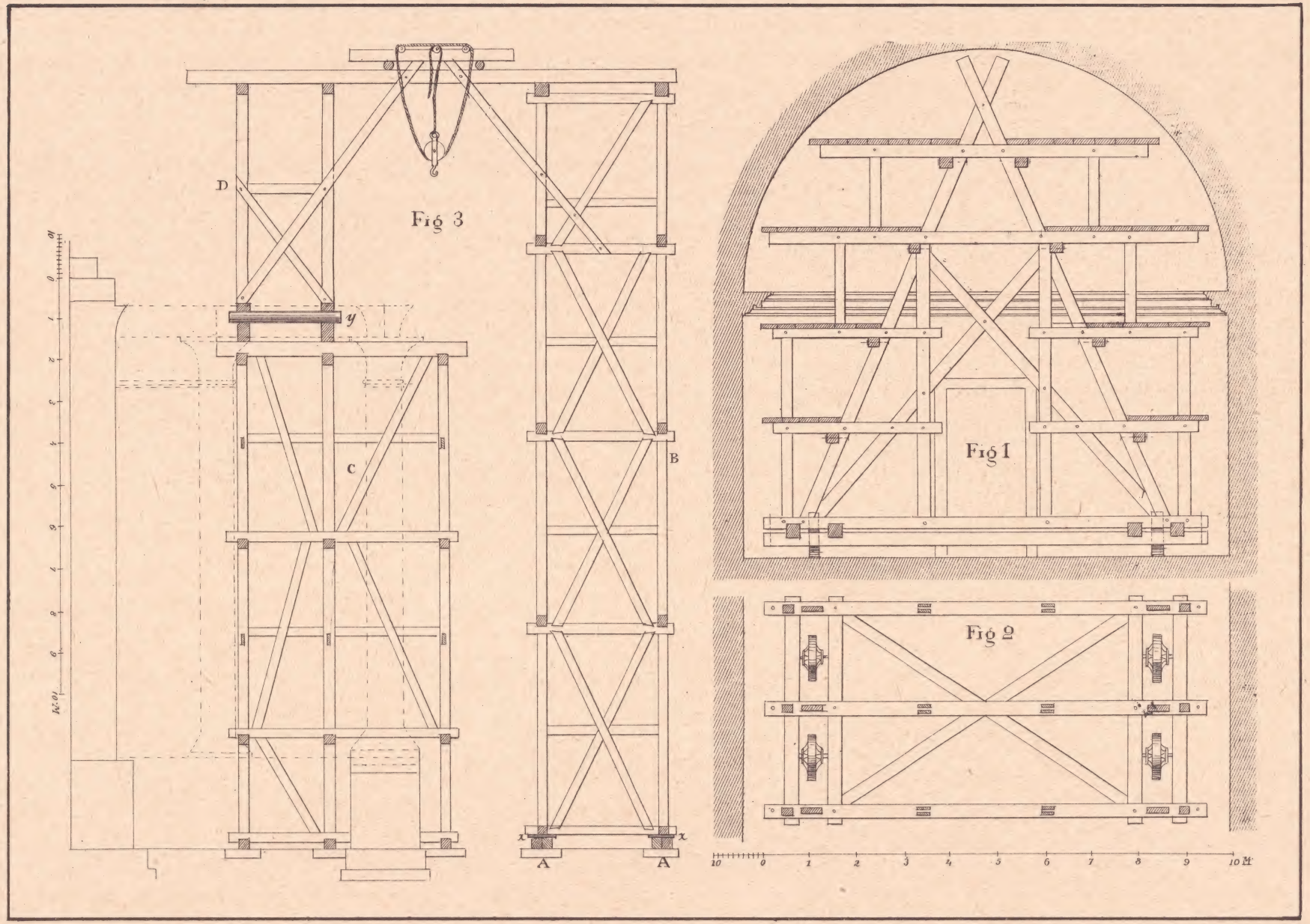
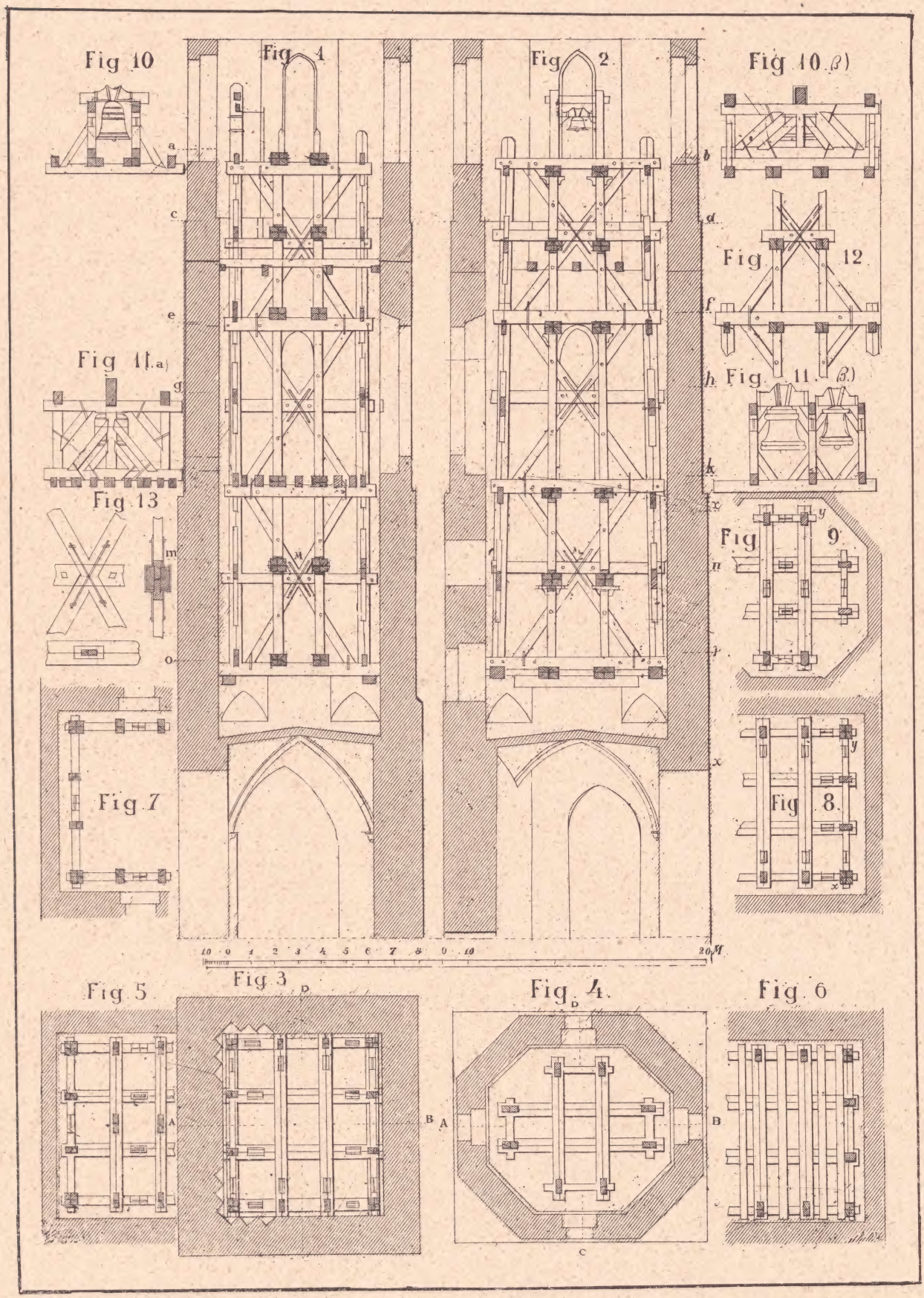


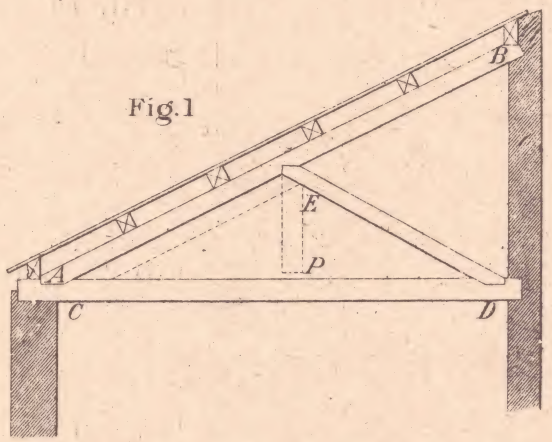
Bregmann II

Casa Edit.e D.r Fr.co Vallardi



Casa Edit.ce Dr F.sco Vallardi

Fig.1



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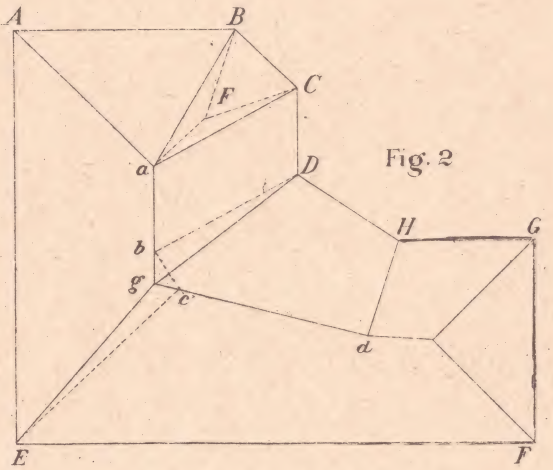

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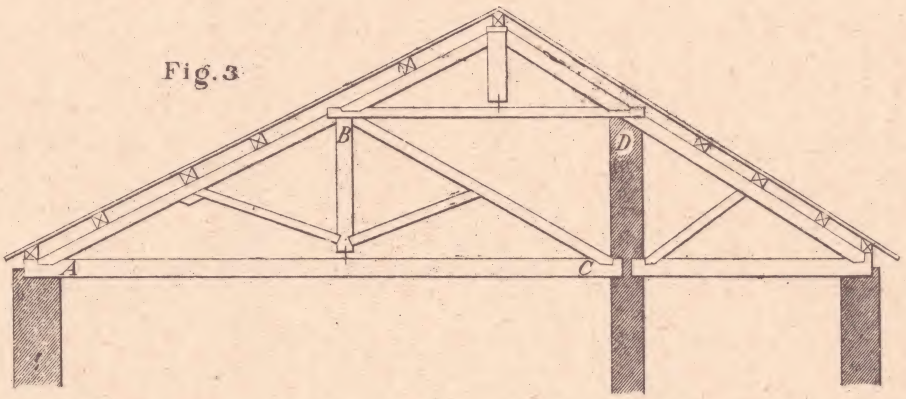

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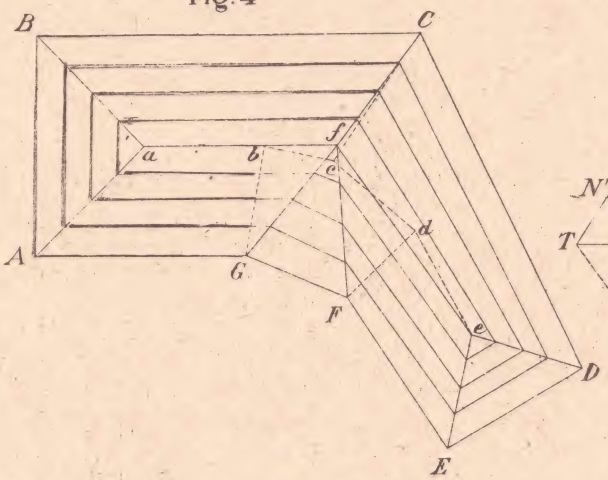

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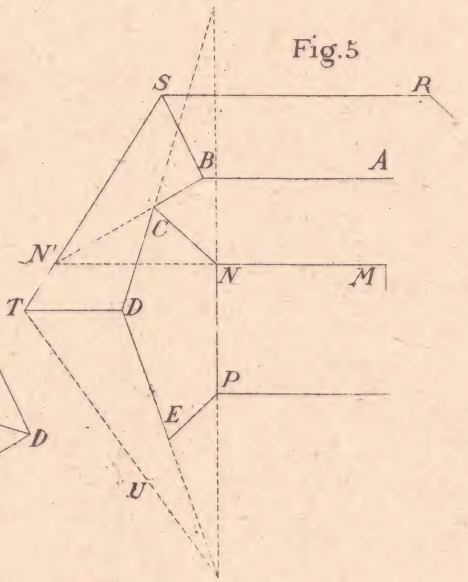
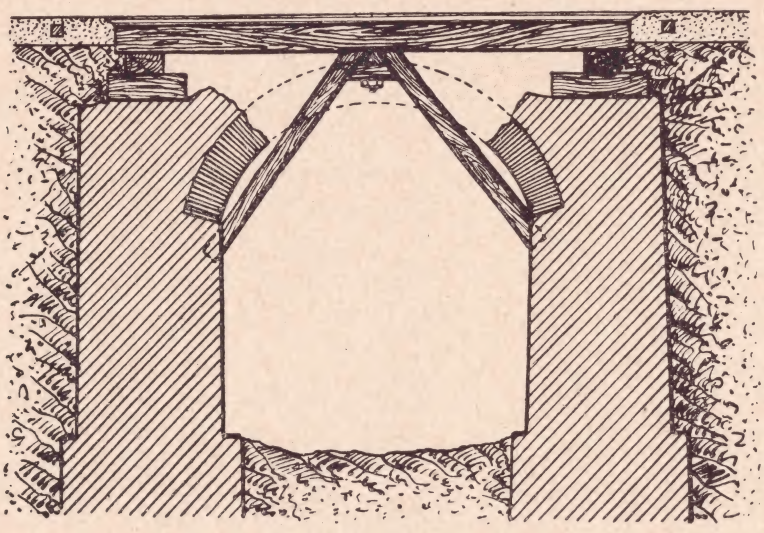
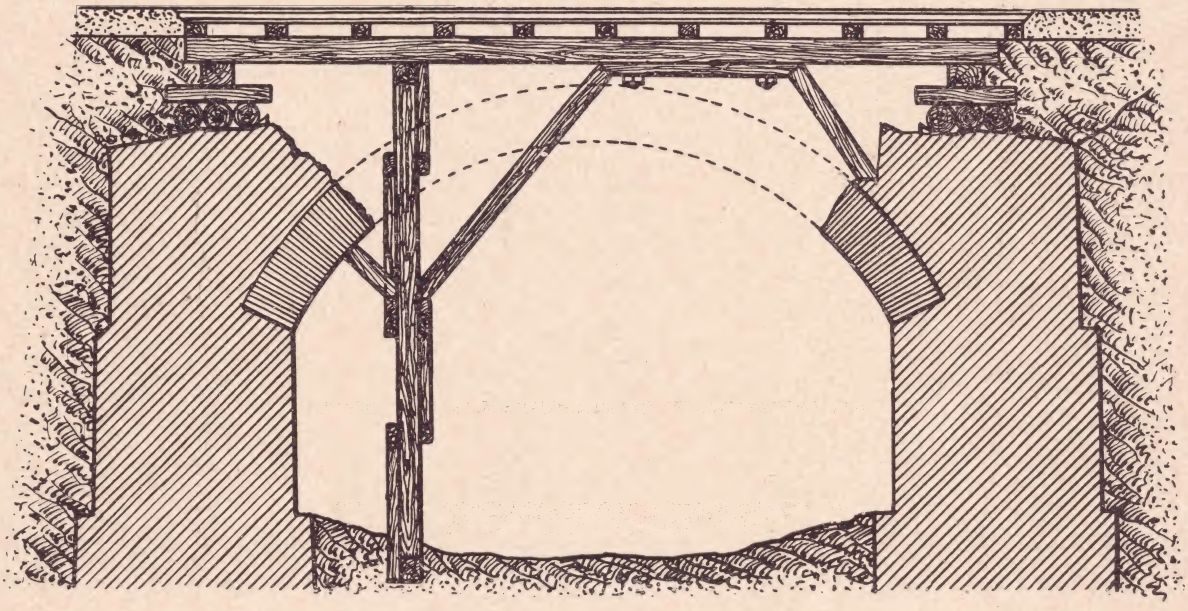
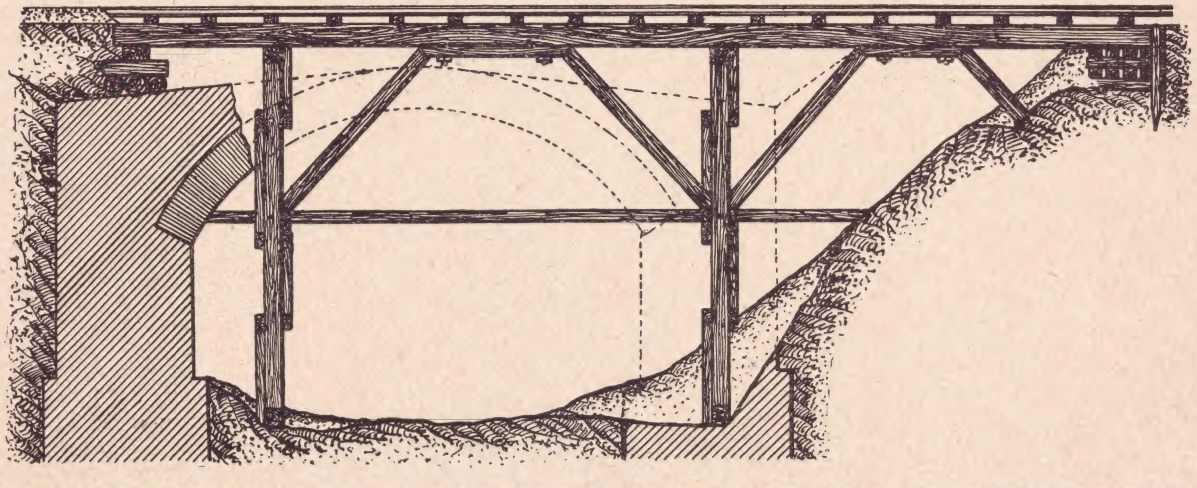
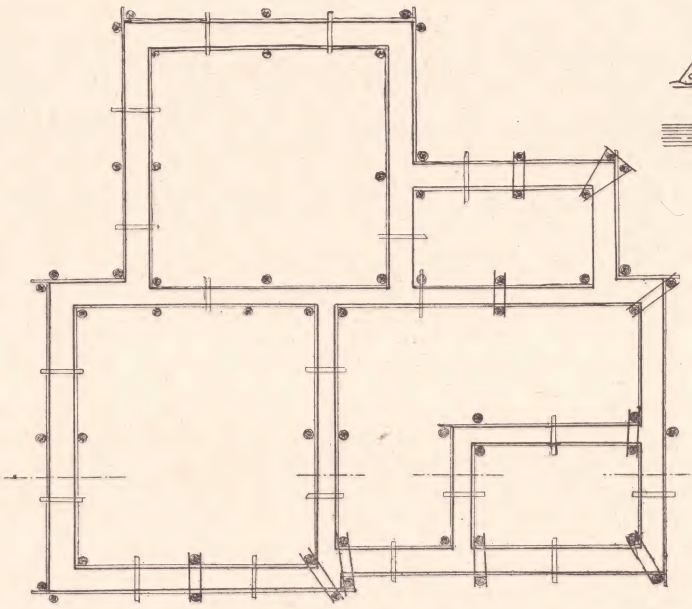








Armatura in casseri per fondazione.



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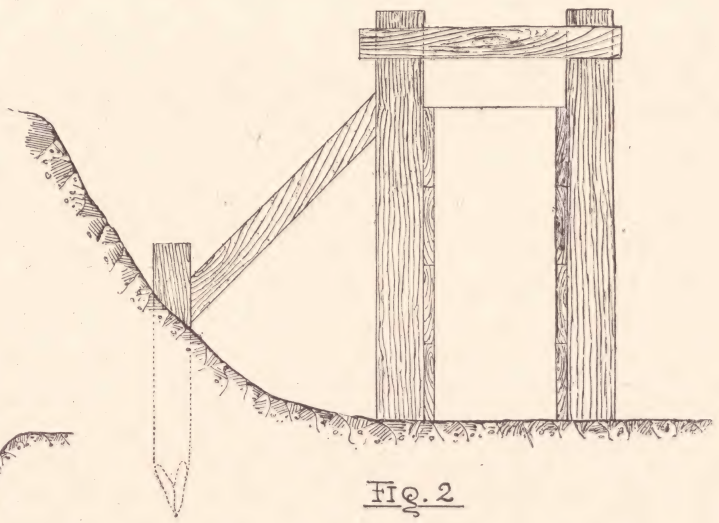

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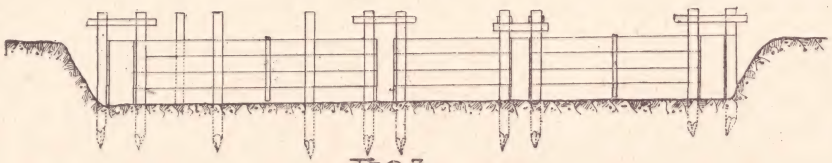

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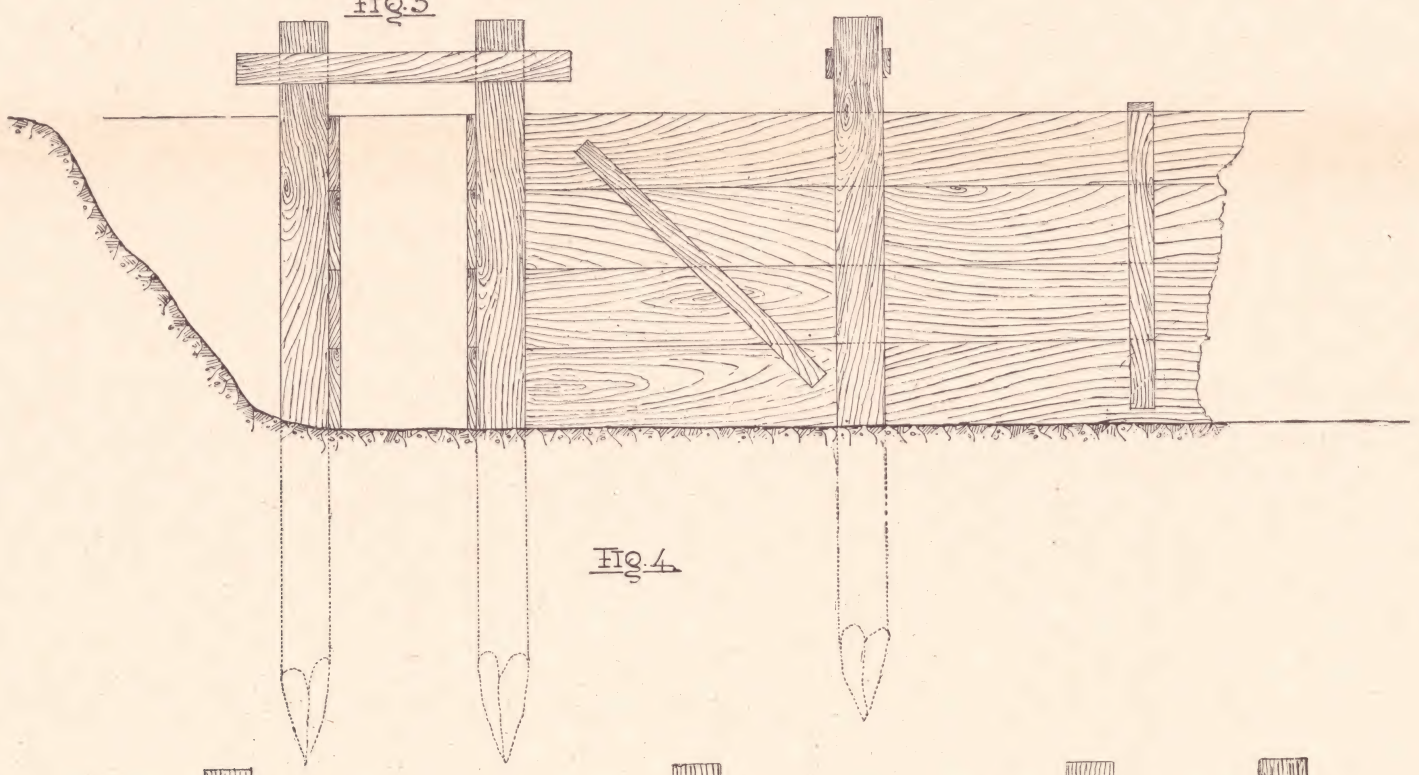

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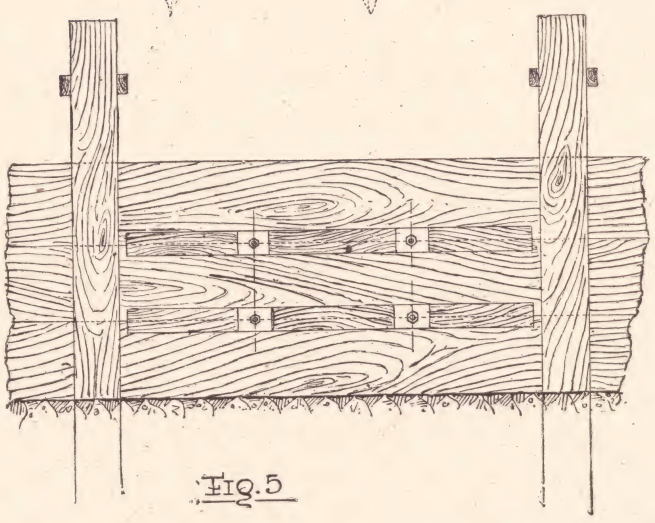

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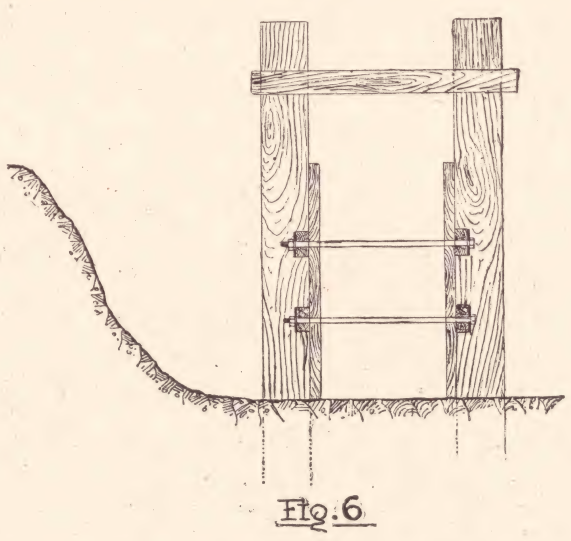

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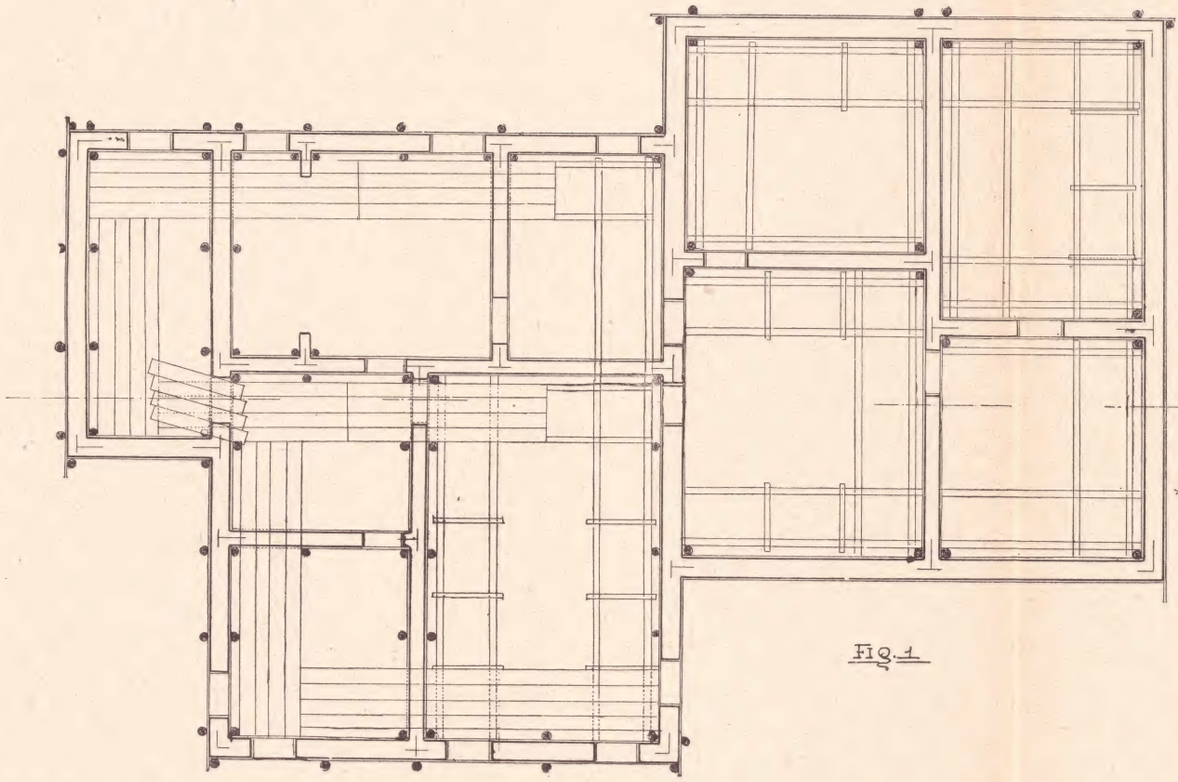


Fig. 1

Armature per muri di fabbricati

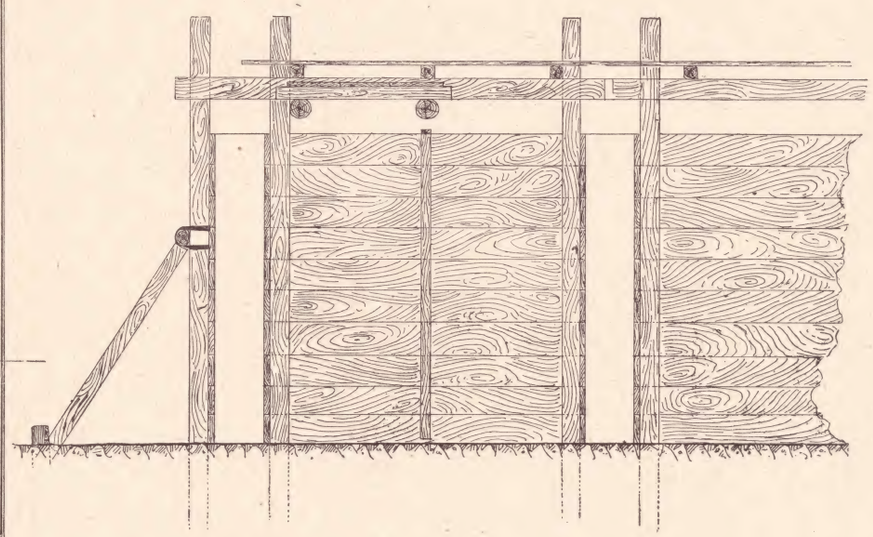
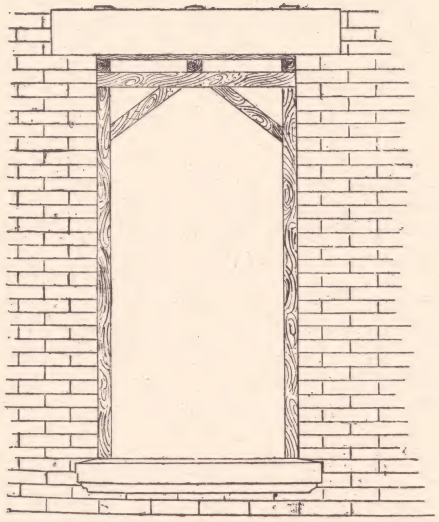


Fig. 2



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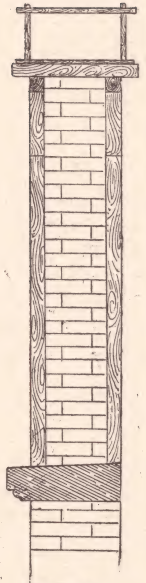

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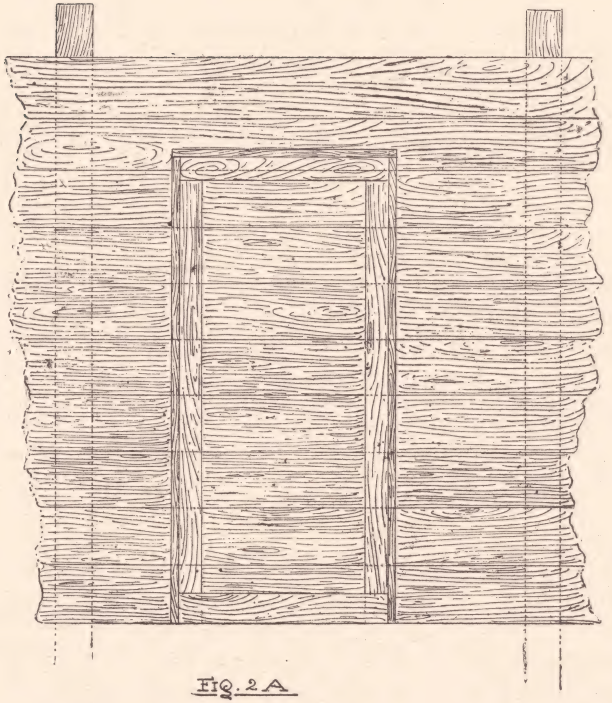
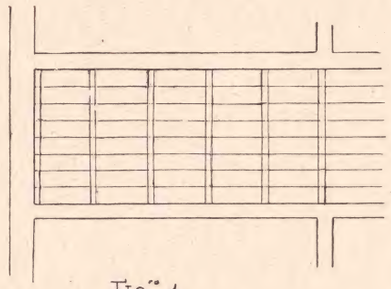


Fig. 2A

Fig. 2B



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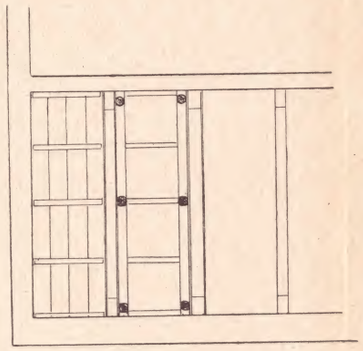

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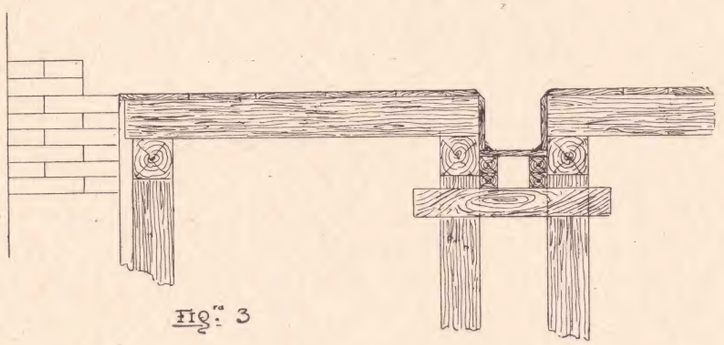

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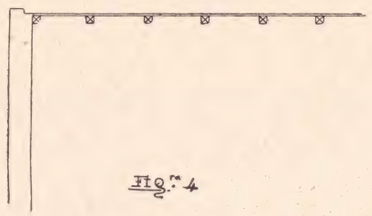

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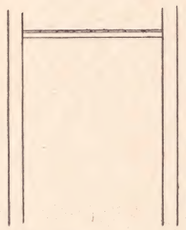
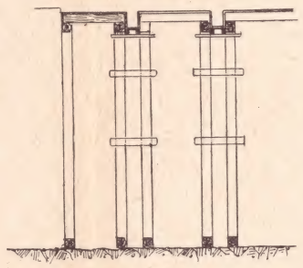


Fig.ª 5



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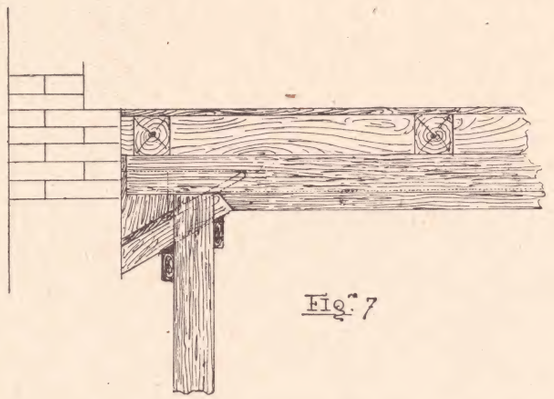

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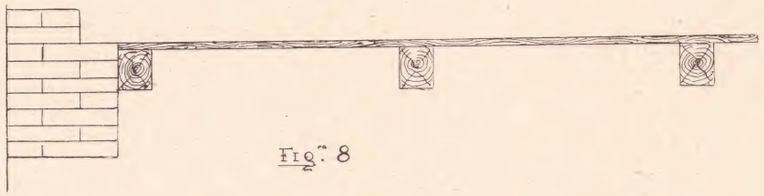


Fig.ª 8

Fig.ª 9

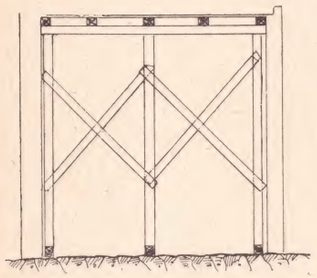


Fig.ª 10

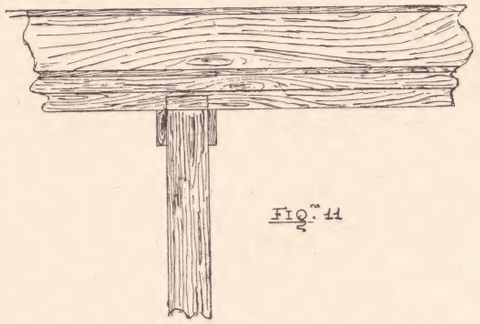


Fig.ª 11

Armatura provvisoria di un solaio composto

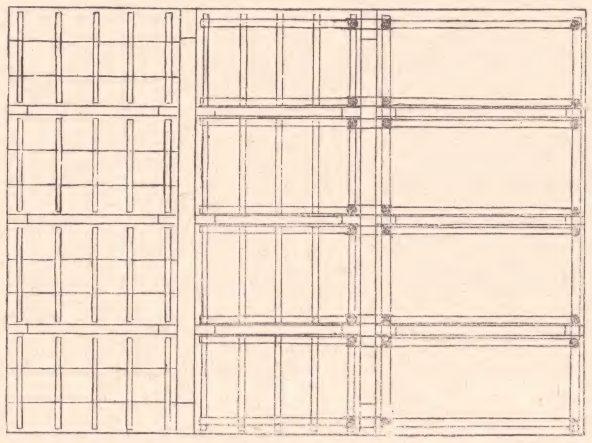


Fig. 1

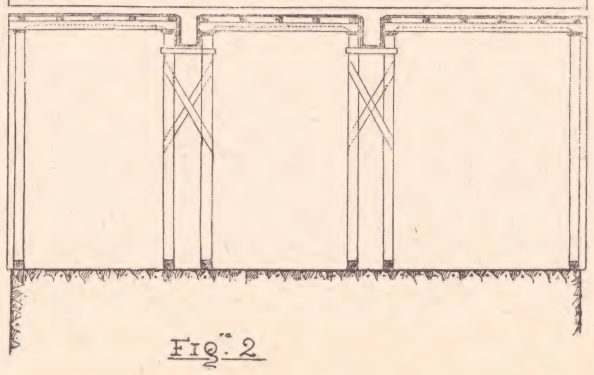


Fig. 2

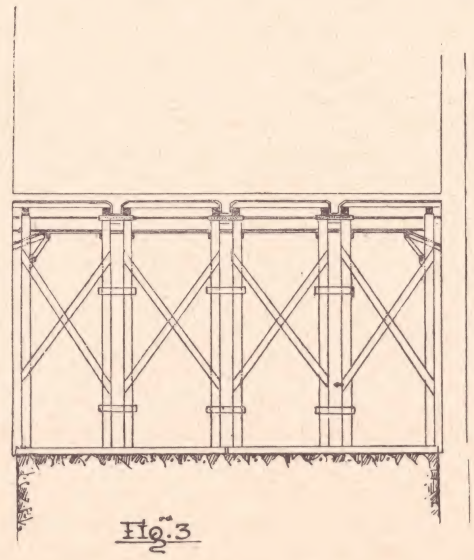


Fig. 3

Dettaglio dell'armamento

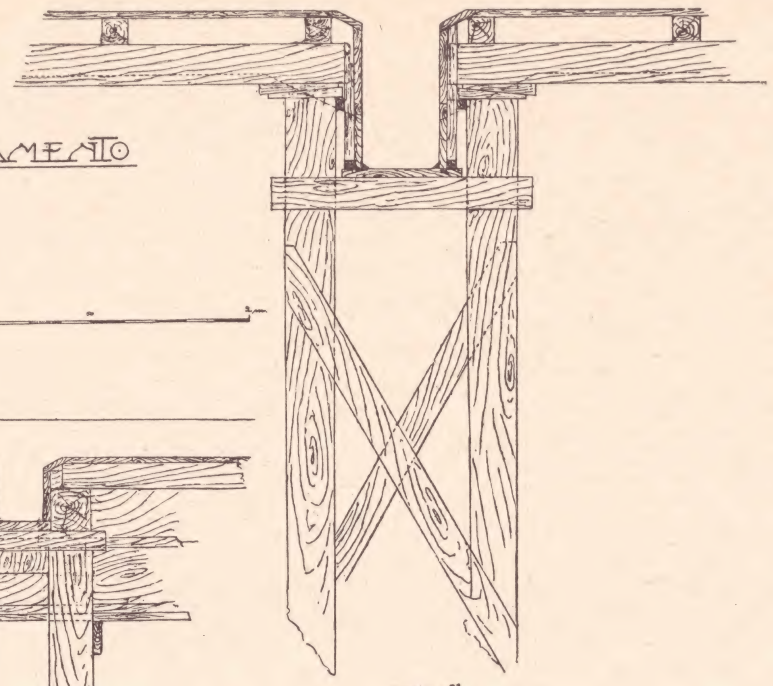


Fig. 4

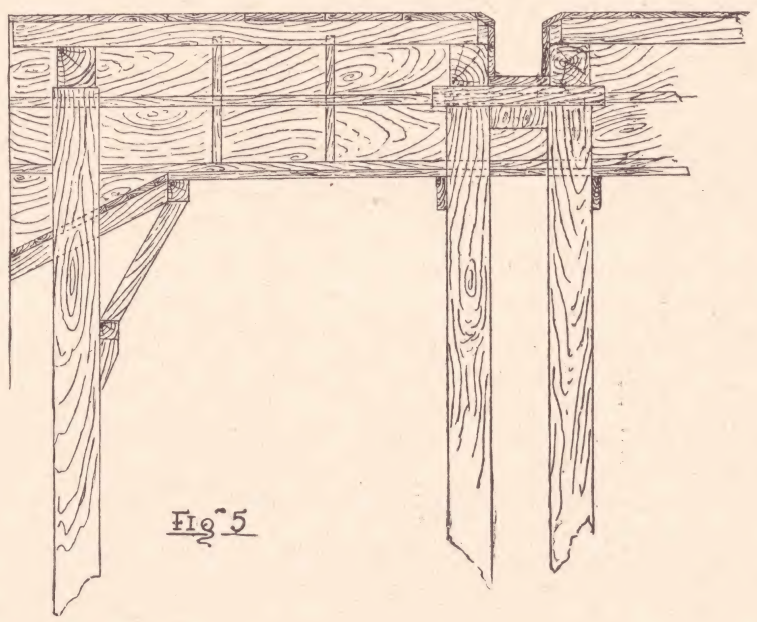


Fig. 5

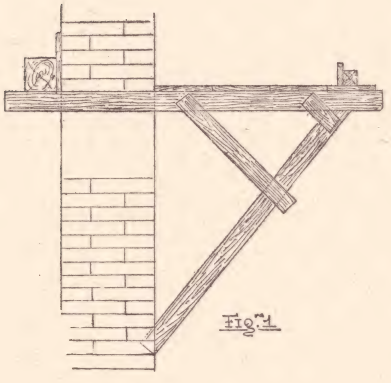
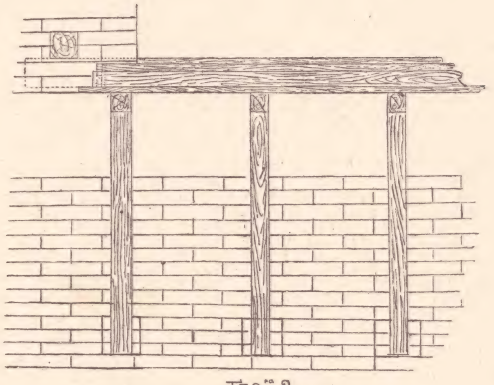


Fig.ª 1.



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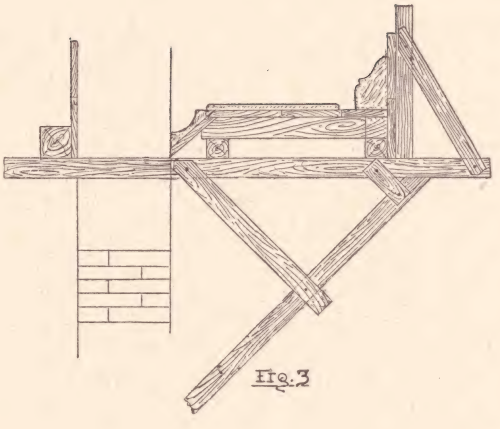

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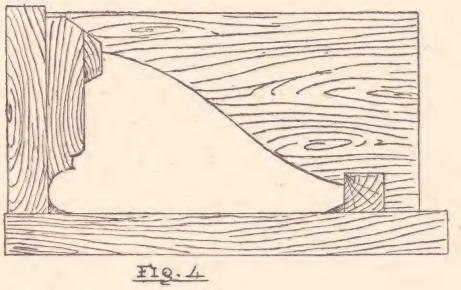

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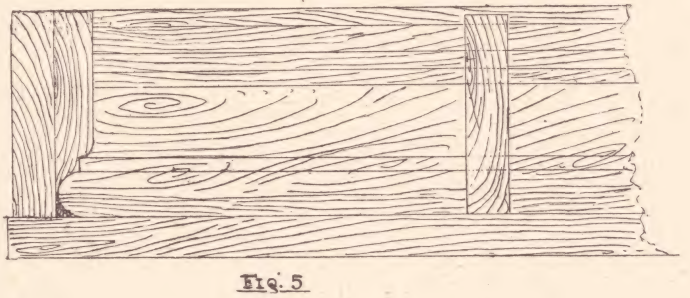

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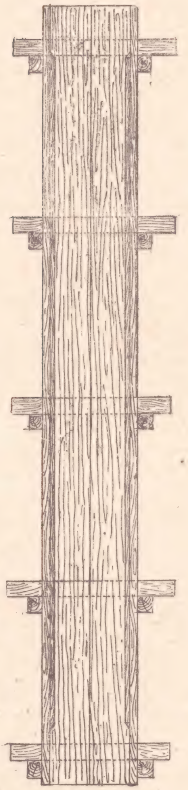

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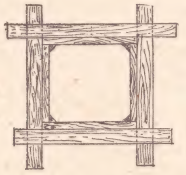

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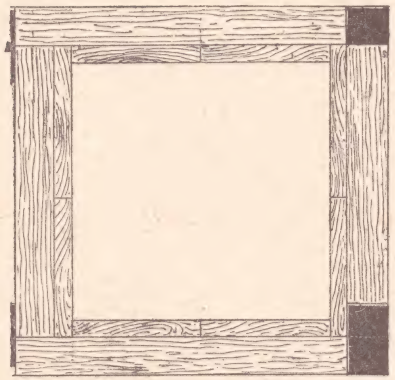


Fig. 2 A

Fig. 2 B

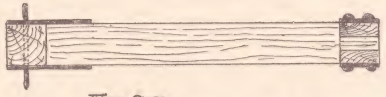


Fig. 2 C

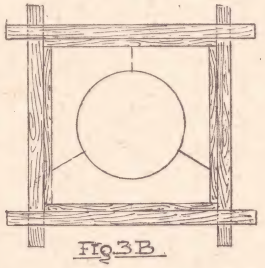


Fig. 3 B

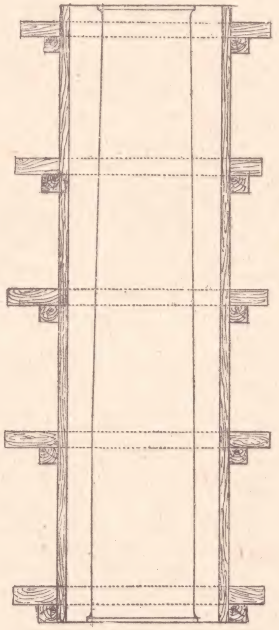


Fig. 3 A

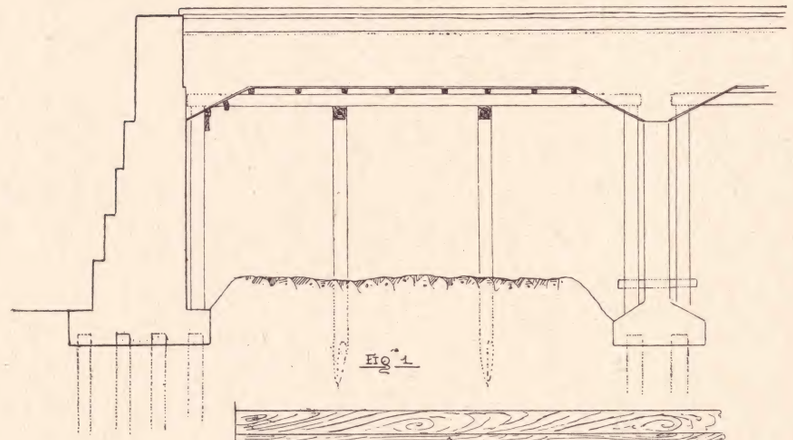
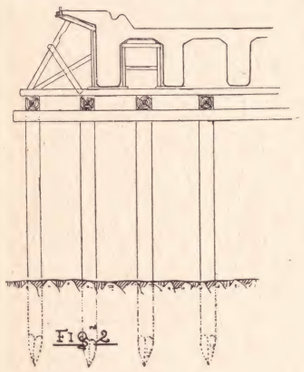


Fig. 1



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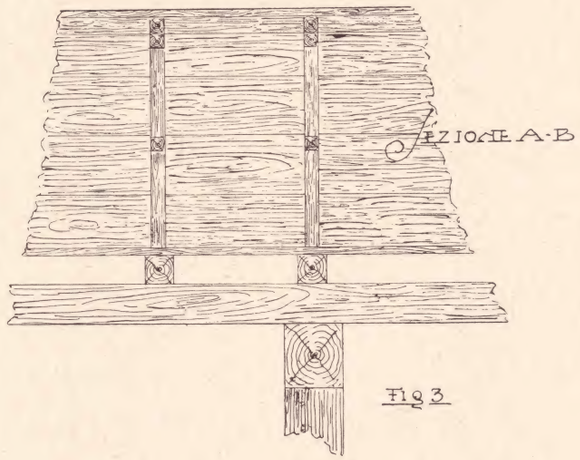
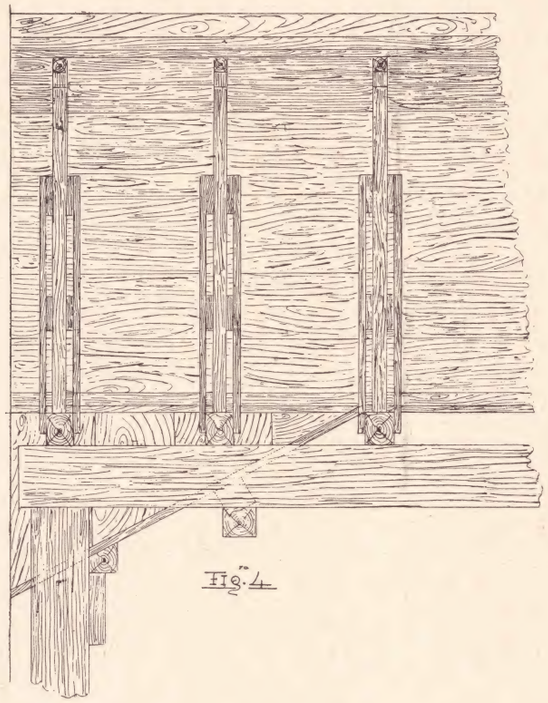


SEZIONE A-B

Fig 3



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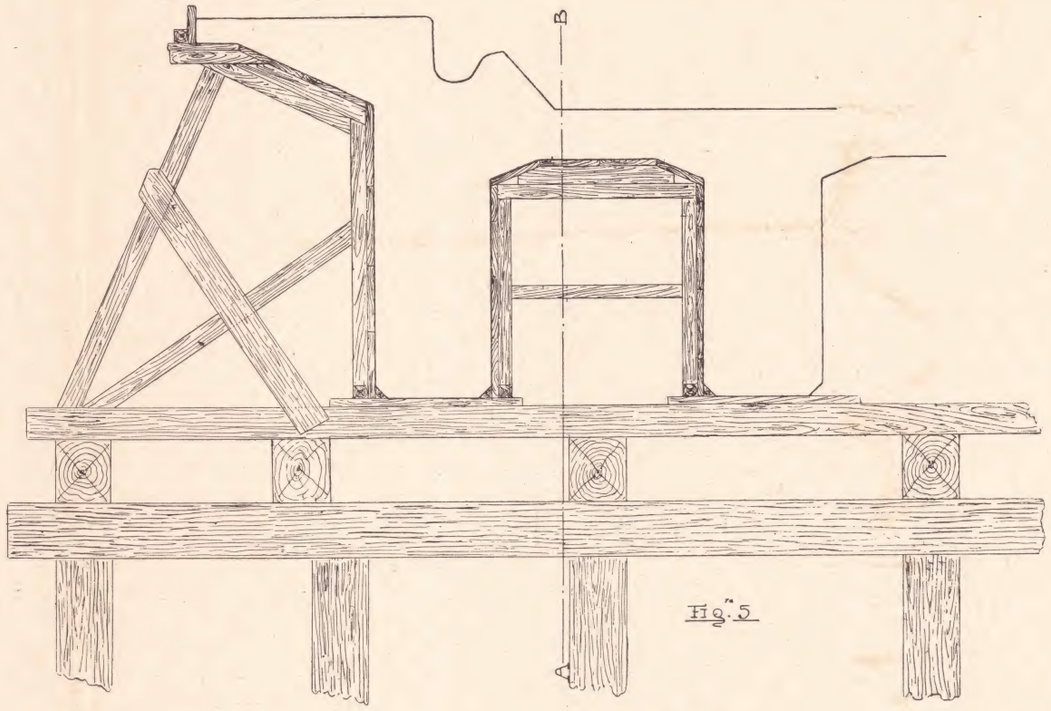

Fig. 5

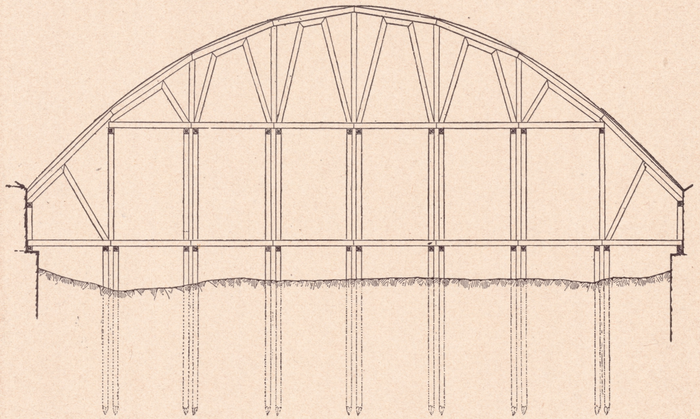

Fig.1.

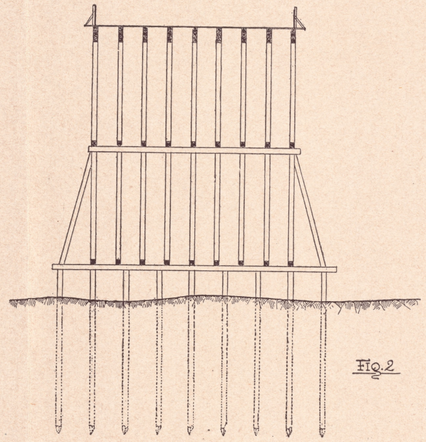

Fig.2

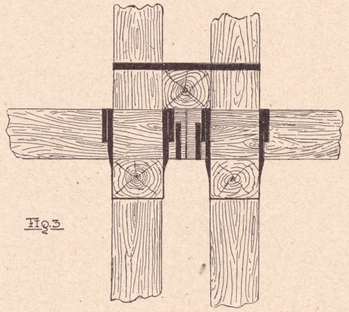

Fig.3

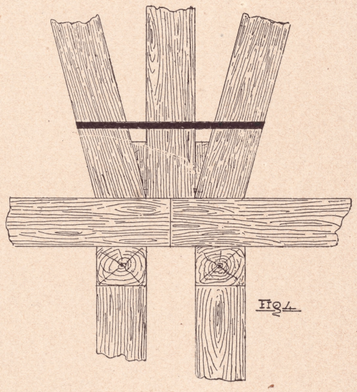

Fig.4

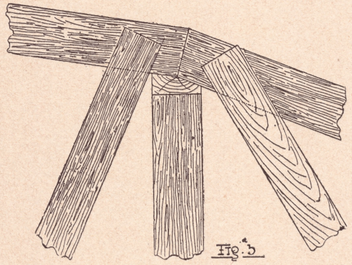

Fig.5

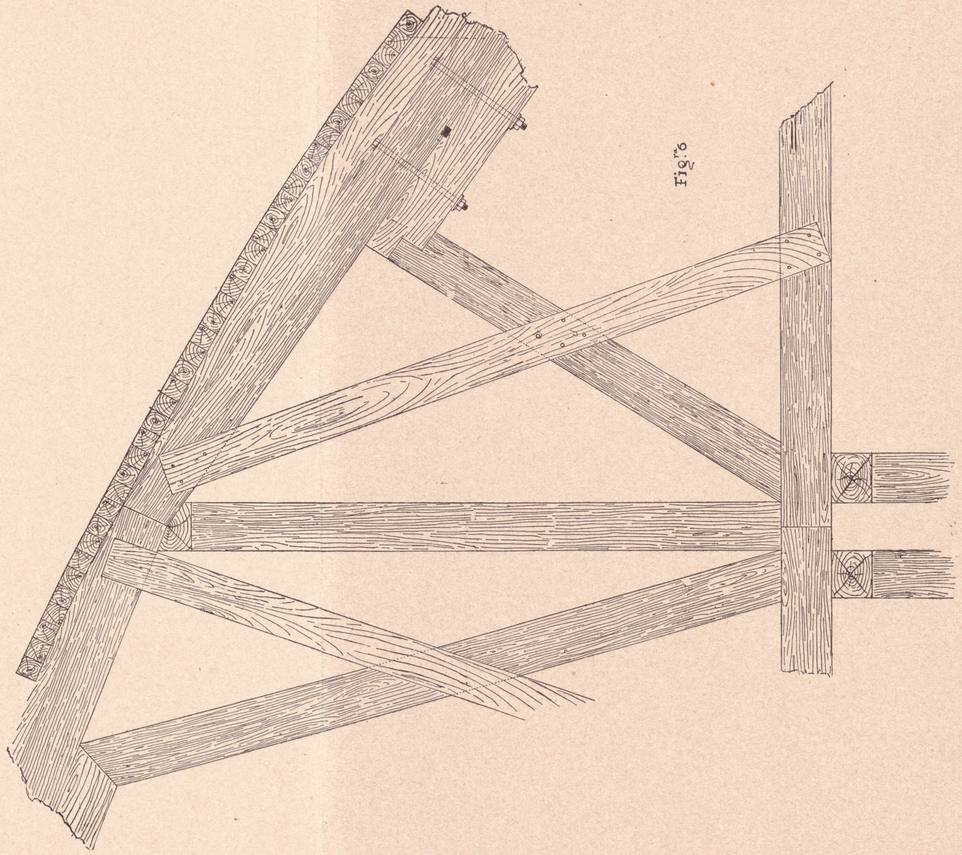

Fig.6

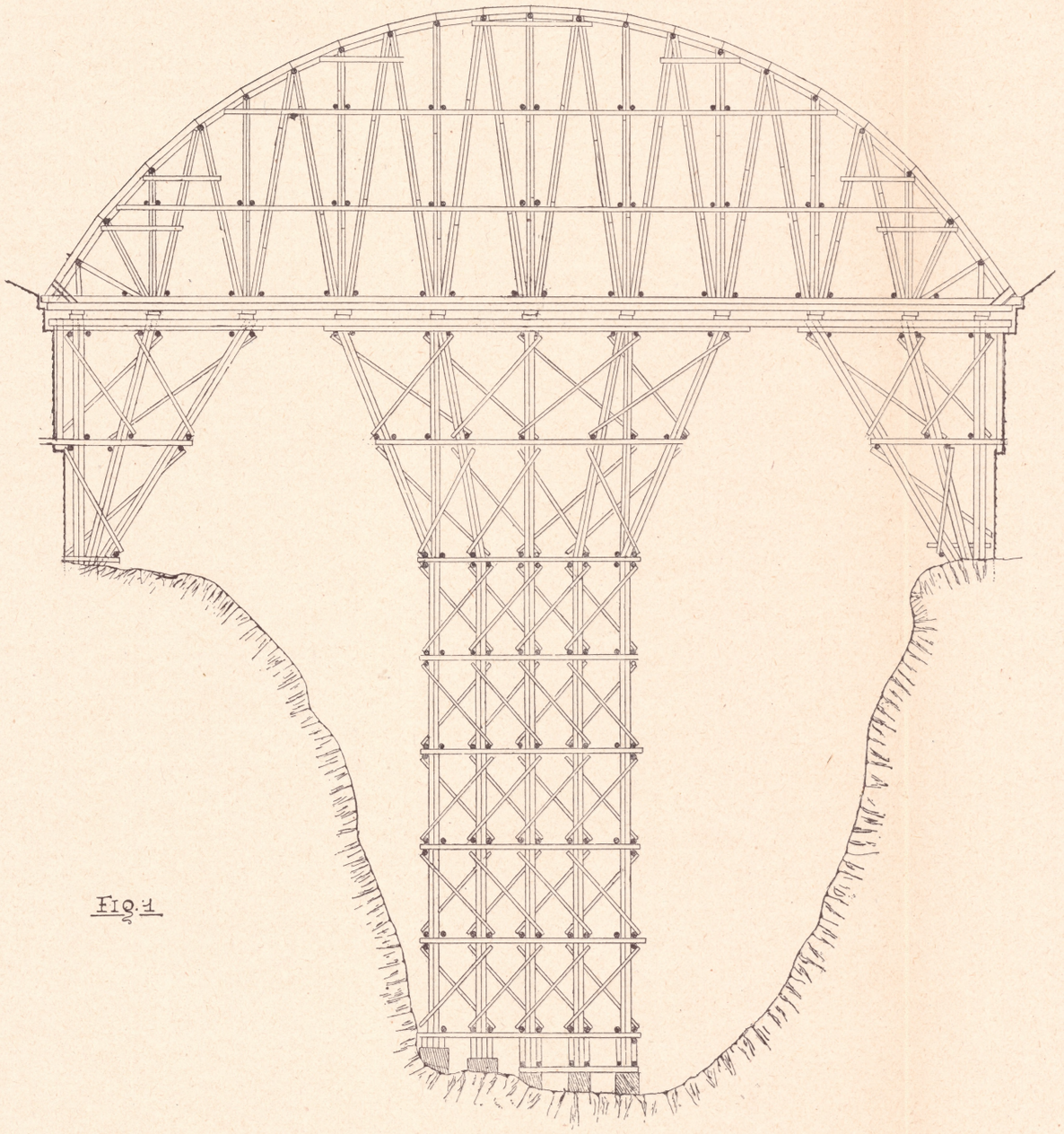

Fig. 1

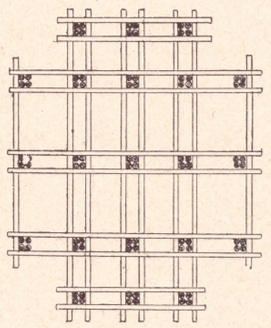

Fig. 2

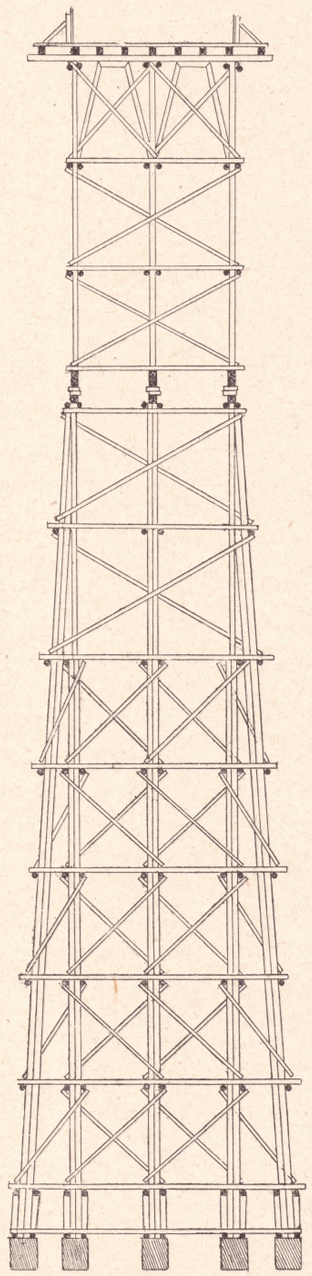

Fig. 3

Fig. 1

Fig. 2

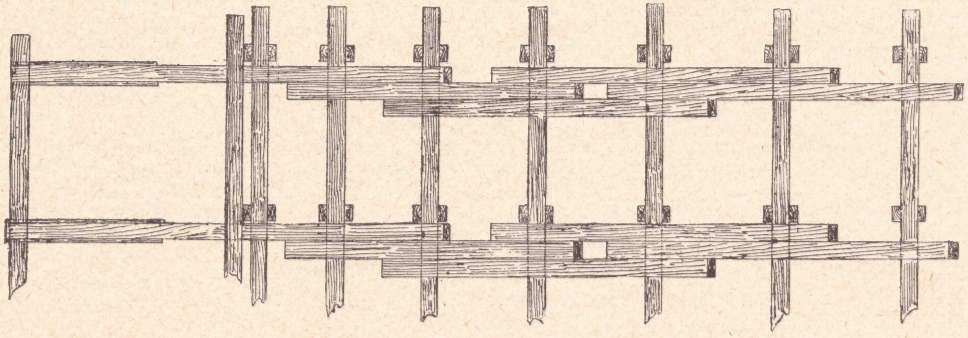

Fig. 3